GE Consumer & Industrial
Power Protection

WORLDWIDE PARTNER

UPS

Uninterruptible Power Supplies

GE imagination at work

For more than a century, GE has led the way with innovative technologies and groundbreaking quality initiatives – literally helping to power the world. Along the way, through the development and delivery of state-of-the-art products and uncompromising service, GE has also built a legacy as a leading supplier of critical power solutions.

To bridge the gap between the traditional utility grid and the needs of today's business, GE offers a complete portfolio of critical power products and services, from desktop Uninterruptible Power Supply (UPS) units to engineered power systems, and from basic UPS and battery maintenance to comprehensive service contracts covering every aspect of your power quality and delivery system.

At GE, our goal is simple – to never let power quality stand in the way of our customers' success. That's why GE is committed to continue developing and delivering

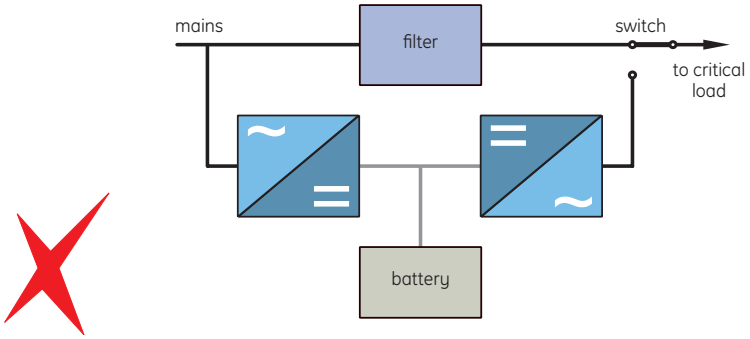
UPS technology for the digital world

UPS topologies - a brief overview

Passive Standby

The passive standby system channels the incoming mains power, via a filter, directly to the load. As soon as the incoming power is outside tolerance, the UPS switches to battery operation.

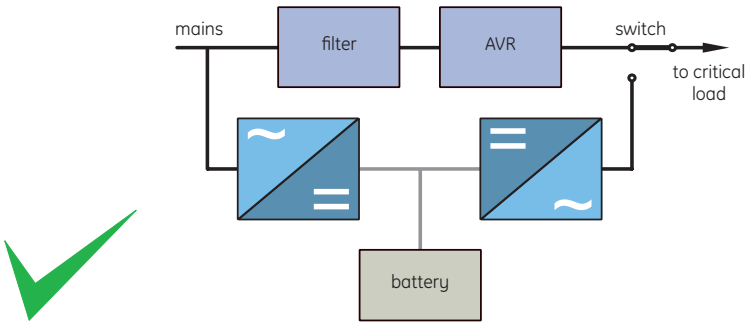
GE's solution: none



Line-Interactive

The line-interactive system channels the incoming mains power, via an AVR - Automatic Voltage Regulator, directly to the load. Compared to off-line, the system can handle much larger voltage variations before switching to battery operation.

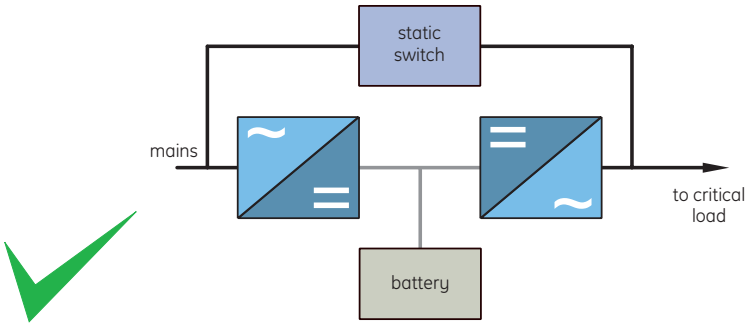
GE's solutions: ML Series, Match



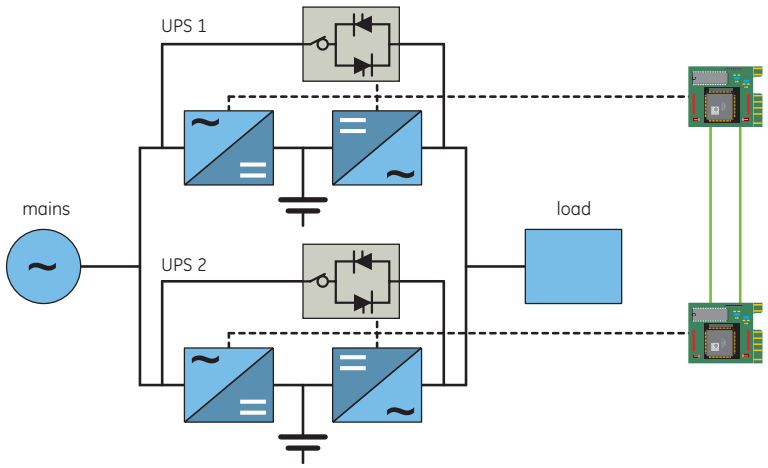
Double Conversion

Input and output are completely separated: the output converter (DC to AC, or = to ~) continuously supplies the critical load with a completely new, regulated and clean sine wave output. No switching takes place when the incoming mains power gets outside tolerances. A bypass switch automatically transfers the load to the mains when the output converter is unable to supply the load (e.g. due to overload or overtemperature).

GE's solutions:
NetPro, LP Series, SitePro, SG Series



RPA™ - Redundant Parallel Architecture™



A unique concept

Many other so-called redundant UPS offerings have one critical shortfall, in that they have critical components that are not redundant. RPA technology provides complete redundancy of all critical components and there are no single points of failure. RPA technology allows UPS system expansion not only to increase capacity but also to improve the reliability of the power provided to critical loads. For mission critical applications, RPA technology provides true redundancy for the highest reliability.

Characteristics

- **RPA Configuration** provides complete redundancy of all critical components and allows paralleling of up to four units for increased load capacity. It ensures excellent dynamic behaviour based on output voltage load sharing. This provides the highest reliability and availability for mission-critical applications.
- **Modular design** allows for system upgrades to meet future power needs without any interruption to the critical load or transfer to bypass.
- **Easy to install and maintain.**
- **Scaleable** design allows for **efficient use of capital.**
- **Peer-to-Peer architecture** where any UPS can be the "logic leader" ensuring **no single points of failure.**

The principle

GE provides a unique technology called Redundant Parallel Architecture (RPA) that can parallel Uninterruptible Power Supply (UPS) modules with true redundancy.

With RPA, there is no need for external electronics or switches to control the UPS modules in the parallel system. One of the UPS modules in the system arbitrarily takes a leadership role, while the other UPS modules have access to all control parameters. If one UPS fails to operate, the load is automatically redistributed among the others. If the lead UPS fails to operate then a different UPS automatically takes on the leadership role.

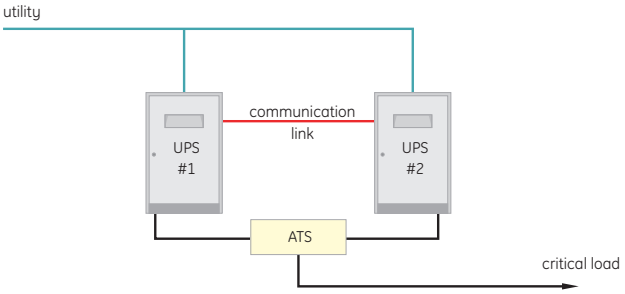
The RPA systems are designed to have no single points of failure, ensuring the highest level of power protection for critical loads.

RPA - a comparative overview

Multiple UPS are configured in a system to support an increase in load capacity and/or to improve reliability. There are several configurations that include multiple UPS. These configurations all share a common shortfall: they all have critical components that are not redundant.

Parallel system with automatic transfer switch

The parallel system with an Automatic Transfer Switch (ATS) consists of one or more UPS modules with outputs connected by a switch that senses a loss in voltage and transfers the load to a different module or modules.

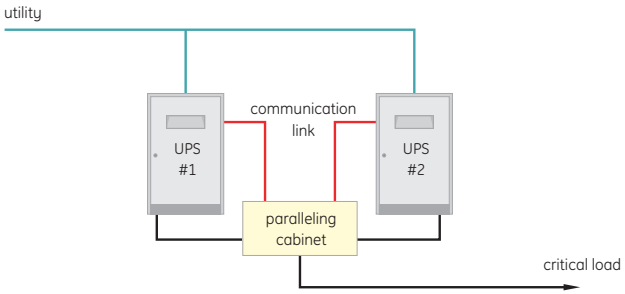


Characteristics

- If one of the UPS modules fails, another unit is available to provide power to the load.
- No load sharing.
- Additional cost of the ATS.
- The ATS is a single point of failure: if it fails, the load will be interrupted even if utility power is available.

Parallel system with paralleling cabinet

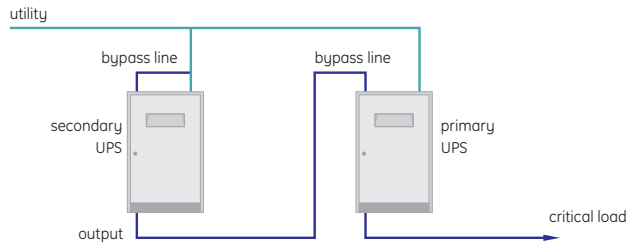
The parallel cabinet configuration uses an external set of centralised electronics to distribute the load between the system's UPS modules.



Characteristics

- If one of the UPS modules fails, another unit is available to provide power to the load.
- Motor-operated breakers replace the function of the ATS. While less expensive than an ATS, they operate much more slowly.
- Failure or malfunction of the shared control electronics will result in a load interruption, which is possible even if the power is present. The shared electronics package is a single point of failure.
- Non-redundant communications links.
- System price is increased because of the additional cost of the shared control electronics and motor-operated breakers.

RPA - a comparative overview

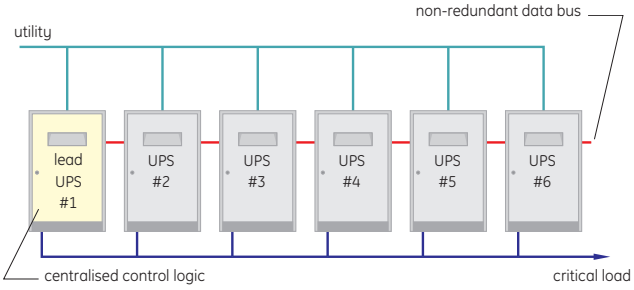


Hot standby

The cascade system or isolated redundant system uses the bypass static switch of the primary UPS to tie the output of a secondary (stand-by) UPS to the load.

Characteristics

- Inexpensive, since no additional components are added to the system.
- There are many single points of failure.
- No sharing of the load. If the primary unit fails, the secondary unit must be able to accept a 100% load increase in 10 milliseconds.
- Overload capacity is limited to the rating of the static switch of the primary module.
- System MTBF* is typically lower than the MTBF of a single module.
  * *Mean Time Between Failures.*



Parallel system with centralized logic

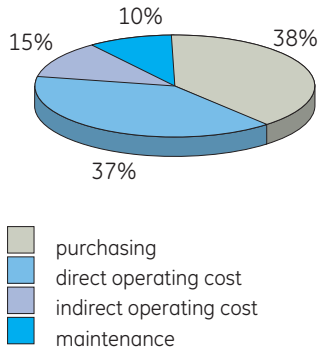
The parallel system with centralized logic is basically designed the same as the paralleling cabinet configuration. The difference is that they utilize the control electronics of one "lead" UPS module to control the distribution of the load between the system's other modules.

Characteristics

- No ATS required.
- If the "lead" UPS module fails, the remaining units are uncontrolled. The system may go to bypass on all units, or may stop operation completely.
- If the communication link between the lead and other units fails, the load may be interrupted even without a utility power failure.

As stated before, these configurations all share a common shortfall: they all have critical components that are not redundant. GE´s RPA™ technology provides complete redundancy of all critical components and there are no single points of failure. RPA technology allows UPS system expansion not only to increase capacity but also to improve the reliability of the power provided to critical loads. For mission critical applications, RPA technology provides true redundancy for the highest reliability.

IEM™ - Intelligent Energy Management

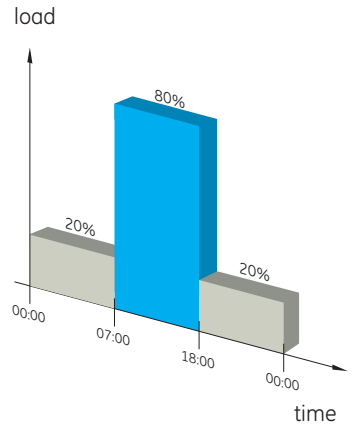


Typical life cycle cost of a large UPS

GE offers the award-winning Intelligent Energy Management™ (IEM™) capability to optimise energy costs while maintaining the highest possible reliability for parallel redundant UPS systems.

The life cycle cost of a UPS system is built up from different components. In general, approximately half of the total cost is operating cost as a result of energy losses - both direct heat losses in the UPS and indirect energy losses of the air conditioning system. UPS systems are engineered into applications taking into account the maximum load that needs to be supplied by the system. In practice the UPS will only supply a part of that load for most of the time. Many applications are shut down outside business hours. In addition very often a safety margin is included (over-dimensioning) for future expansion. As a result the system is not used at its nominal rating most of the time during operation. This reduces the efficiency of the system and increases the energy costs.

For parallel UPS installations, secured with RPA™, IEM saves energy by dynamically utilising the UPS modules as required to supply the load without compromising on the power reliability.



In a typical application the actual load supplied is generally smaller than the nominal rating of the system

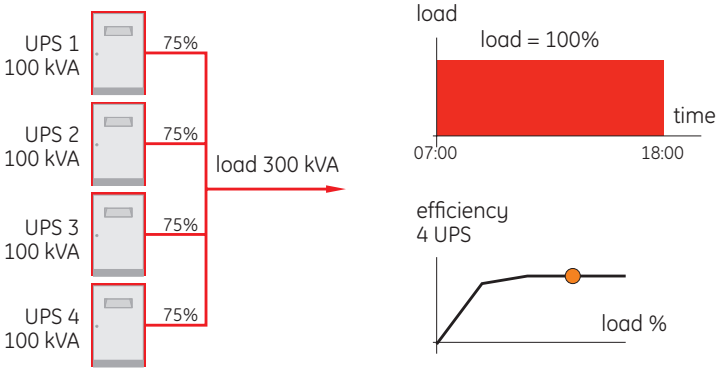
The set-up of IEM is flexible, giving the end user the freedom of choice to select redundancy degrees in different time periods. IEM also rotates amongst the units that are switched off to get operating hours equally distributed over all units.

Use of IEM resulted in incremental energy savings of up to $33,000 annually for a system of four 100kVA units secured by RPA™ operating at full load for 50 hours per week and partial load (10%) for the remaining time.

Benefits

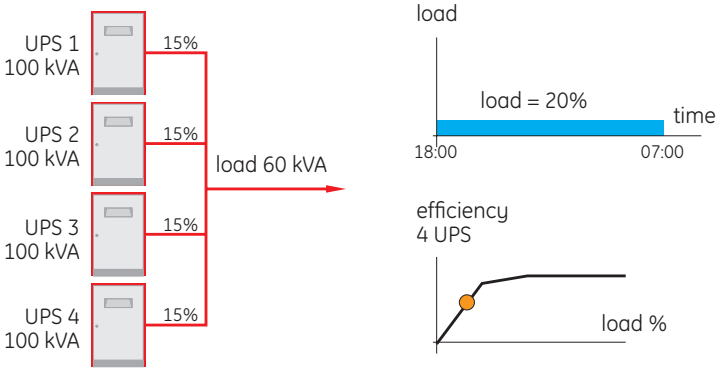
- Reduced energy consumption
- Maintaining of power quality and reliability to the critical load
- Mains power quality monitoring
- User-definable protection levels
- Scheduled activation
- Automatic switch on of additional units in critical situations, increasing reliability
- Equal operating hours for each UPS in a parallel system

IEM - compared to legacy parallel system



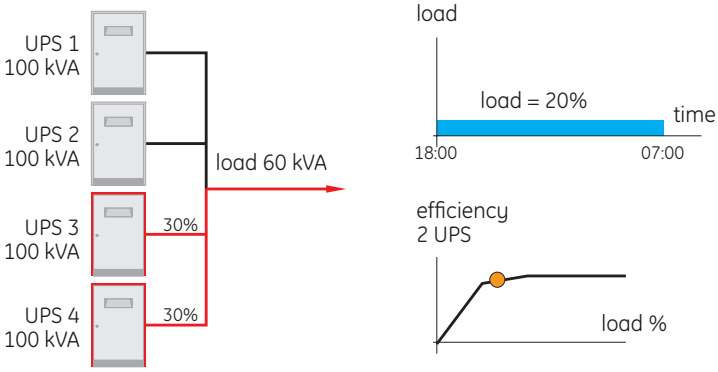
Legacy Parallel System
Full-Load Condition

In full load condition the efficiency of a UPS is optimal. However, this condition only occurs typically 10 hours / day.



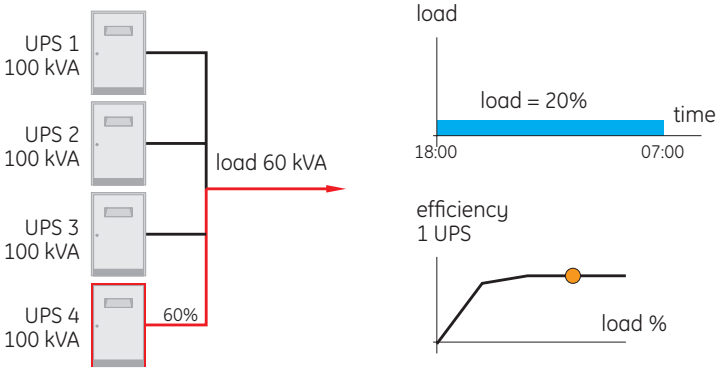
Legacy Parallel System
Partial-Load Condition

In partial load condition (most of the time) the efficiency of the UPS is lower causing higher energy costs.



IEM
Intelligent Energy Management
Partial Critical Load Condition
(UPS Redundancy)

With IEM installed 2 units will be switched off automatically. In this way the efficiency is improved, still maintaining a n+1 redundant system.



IEM
Intelligent Energy Management
Partial non-Critical Load Condition (Utility Redundancy)

With IEM installed 3 units can be switched off. In this way the efficiency is improved even more. The bypass is still available and will supply the load in case of a failure.

Service for mission-critical power

Whether you are a large corporation with multiple sites or a small business owner with a single location, GE will enable you to have a constant supply of clean and reliable power to keep your business up and running.

We are at home in all industries, specialized in solutions and services for your electrical infrastructure, including:

Critical power systems
- UPS systems
- stationary battery systems
- static transfer switches (STS)

Low voltage equipment
- maintenance & service contracts
- extended warranty
- remote monitoring & diagnostics

Industrial controls
- variable speed drives
- soft starters
- PLC

Service coverage

GE has local offices in a number of countries around the globe and also a network of selected business partners, whose salespeople and service engineers combine expertise in our solutions with an in-depth knowledge of local market conditions. GE's business partners, located in more than 80 countries around the world, use all that expertise and knowledge to adapt GE's products and services precisely to their customers' needs.

Service portfolio
GE offers a comprehensive portfolio of power quality services including:

On site & emergency services
- 24*7 emergency hotline
- installation, commissioning, start-up and upgrades
- repair, upgrade, retrofits
- assessment, inspection, testing
- on-line assistance

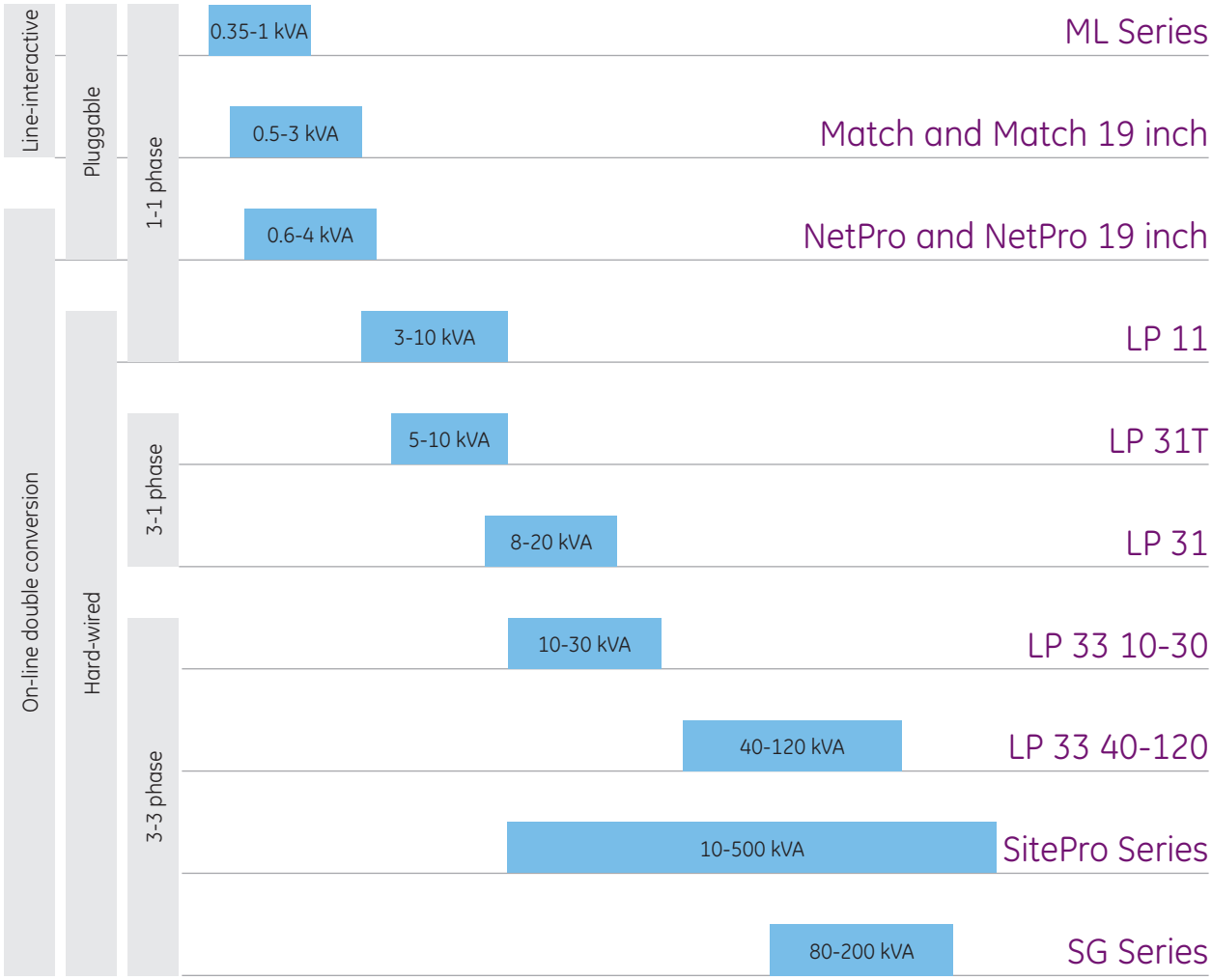
Contractual services
- maintenance & service contracts
- extended warranty
- remote monitoring & diagnostics
- guaranteed intervention times
- preventive, planned maintenance
- resident technical services
- upgrade management

Parts and repairs
- spare parts supply
- repair services
- replacement / return
- web based parts supply
- equipment rental

Training
- training for operators
- training for maintenance staff
- product training
- web based training

Notes

UPS families - overview



ML Series - line-interactive UPS

Applications

The line-interactive Digital Energy ML Series UPS is used in a wide range of IT, networking and telecommunications applications. It will protect servers, hubs, switches and routers, and may also be installed to protect PCs, workstations, cash registers, fax machines, modems and ISDN adaptors.

Characteristics

The line-interactive ML Series UPS normally supplies the load through a bypass circuit. Filtering capabilities guard against surges, spikes and high frequency interferences. The utility also keeps the battery fully charged.

The input voltage window is extremely wide: as long as the input voltage is within 140-300 Vac (ML 350-700 VA) or between 160-265 Vac (ML 1000 VA) the Automatic Voltage Regulation (AVR) guarantees an output voltage that is between 198-265 Vac and acceptable for every modern ICT device.

In case of a mains failure the UPS switches to battery operation with a transfer time of 4 milliseconds, sufficiently short for computers which therefore will continue to operate without interruption.

Function

Providing exceptional cost-critical protection for electrical equipment

Standards / Marking

Safety: EN 50091-1-1; EN 60950;
EMC: EN 50091-2

CE

Technical specifications (general)

Input voltage range 350-700 VA models	140-300 Vac
Input voltage range 1000 VA model	160-265 Vac
Input frequency	50Hz ± 10%
Output voltage	230Vac +5% / -10% (battery operation)
Output frequency	50Hz
Ambient operating temperature	-10 to 40°C
Relative humidity	95% non-condensing
Audible noise	< 35 dB(A)
Communication interface	RS232
Protection degree	IP20

Runtime table (minutes)

ML Series model	**350**	**500**	**700**	**1000**
at typical UPS load (75%)	*4*	*5*	*7*	*7*
Watts[1] 60	25	40	60	85
210	3	8	14	24
300	-	3	7	11
420	-	-	3	7
600	-	-	-	3

(1) Max. power factor 0.6 (0.7 at 90% load)

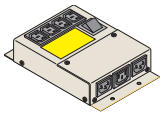
ML Series - line-interactive UPS

ML Series

Rating (VA / W)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Battery (V/Ah)	No. of outlets IEC 320	Ref. No.
350/210	3	150x110x300	6.5	12/5	2	**916181**
500/300	3	150x110x300	7.5	12/7	2	**916182**
700/420	3	150x110x420	11	24/5	2	**916183**
1000/600	3	150x110x450	13	24/7	2	**916184**

Option

Manual service bypass	-	-	53x130x204	0.8	-	-	**912349**



Function

Providing exceptional cost-critical protection for electrical equipment

Standards / Marking

Safety: EN 50091-1-1; EN 60950;
IEC 60950
EMC: EN 50091-2

CE

Match Series - line-interactive UPS

Applications

The line-interactive Digital Energy Match Series UPS is used in a wide range of IT, networking and telecommunications applications. It will protect servers, hubs, switches and routers, and may also be installed to protect PCs, work-stations, cash registers, fax machines, modems and ISDN adaptors.

Characteristics

The line-interactive Match Series UPS normally supplies the load through a bypass circuit. Filtering capabilities guard against surges, spikes and high frequency interferences. The utility also keeps the battery fully charged.

The input voltage window is extremely wide: as long as the input voltage is within 165-275 Vac (Match 500-1500 VA) or even between 140-305 Vac (Match 2200-3000 VA) the Automatic Voltage Regulation (AVR) guarantees an output voltage that is between 190-254 Vac and acceptable for every modern ICT device.

In case of a mains failure the UPS switches to battery operation with a transfer time of 4 milliseconds, sufficiently short for computers which therefore will continue to operate without interruption.

Technical specifications (general)

Input voltage range 500-1500 VA models, 70% load	165-275 Vac
Input voltage range 2200-3000 VA models, 70% load	140-305 Vac
Input frequency	50 or 60 Hz ± 5%
Output voltage	230 Vac ± 2% (battery operation)
Output frequency	50 or 60 Hz, autosensing
Ambient operating temperature	-10 to 40°C
Relative humidity	95% non-condensing
Audible noise	35-45 dB(A)
Communication interface	RS232; Plug and Play; open collector alarm contacts (model dependent)
Protection degree	IP20

Runtime table (minutes)

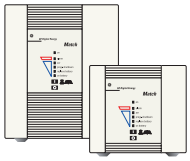
Match Series model	**500**	**700**	**700L**	**1000**	**1000L**	**1500**	**2200**	**3000**
at typical UPS load (75%)	*5*	*11*	*38*	*12*	*25*	*14*	*8*	*8*
Watts[1] 60	35	77	185	106	185	185	237	308
180	8	23	69	38	69	69	83	112
300	3	11	40	21	40	40	49	66
420	-	6	27	14	27	27	33	46
600	-	-	-	8	18	18	22	31
900	-	-	-	-	-	9	12	19
1540	-	-	-	-	-	-	5	8
2100	-	-	-	-	-	-	-	5

(1) Max. power factor Match 500-1500: 0.6; Match 2200/3000: 0.7

Match Series - line-interactive UPS

Match

1000-3000 VA



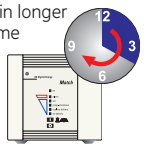
500-700 VA

Rating (VA / W)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Battery (V/Ah)	No. of outlets IEC 320	Ref. No.
500/300	4	144x155x350	7.2	12/7	3	**912321**
700/420	8	144x155x350	10.0	24/7	3	**912322**
1000/600	8	225x180x360	16.5	36/7	4	**912324**
1500/900	10	225x180x360	20.8	36/12	4	**912326**
2200/1540*	-	225x187x485	18.0	-	7	**912328**
battery pack	5	225x187x485	21.3	36/14	-	**912330**
3000/2100*	-	225x187x485	20.1	-	7	**912329**
battery pack	5	225x187x485	26.5	48/14	-	**912331**

** UPS enclosure without batteries, order separate battery pack*
more battery packs can be connected for longer runtimes

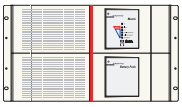
Match L

built-in longer runtime



700/420	30	225x180x360	20.8	36/12	4	**912323**
1000/600	20	225x180x360	20.8	36/12	4	**912325**

Match 19 inch

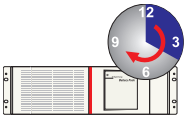


2200-3000 VA: 6HU

700/420	8	3HUx19"x440mm	19.0	12/7	3	**912439**
1000/600	8	3HUx19"x440mm	22.0	24/7	3	**912440**
1500/900	10	3HUx19"x440mm	26.0	36/7	4	**912441**
2200/1540	5	6HUx19"x440mm	50.0	36/12	4	**915571**
3000/2100	5	6HUx19"x440mm	57.0	48/14	7	**915572**

Battery pack

for Match 19 inch

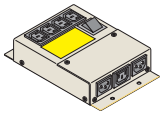


to increase runtime

for 2200 VA	15	3HUx19"x440mm	26.0	36/14	-	**912453**
for 3000 VA	15	3HUx19"x440mm	30.0	48/14	-	**912454**

Options

Manual service bypass



Manual service bypass box, hxwxd = 53x130x204mm	**912349**
DC cable (1.5m) for 3rd party external battery Match 2200	**914850**
DC cable (1.5m) for 3rd party external battery Match 3000	**914851**

Standards / Marking

Safety: EN 50091-1-1; EN 60950;
IEC 60950
EMC: EN 50091-2; EN 50081-1 +
EN 50082-1; IEC 61000-4-5

CE

NetPro Series - double conversion UPS

Applications

The on-line NetPro UPS is designed for mission-critical applications. It is used in a wide range of IT networking and telecommunications applications: mission-critical servers, telecommunication equipment and local area networks.

Characteristics

The NetPro UPS is a true VFI (Voltage & Frequency Independent) on-line double conversion UPS. This technology allows the NetPro to eliminate any power reliability problem.

The incoming AC mains power is continuously converted by the input converter to DC, which is used to charge the batteries and to supply the output converter. This output converter synthesizes a completely new AC sine wave output for the connected load. Any mains disturbance is blocked at the input.

The 2000-4000 VA models are equipped with a LCD information panel with status and alarm settings.

The 3000-4000 VA models have a programmable outlet that can be switched off for less critical loads, thus maximizing up-time of critical devices.

Function

Providing exceptionally reliable protection for electrical equipment

Technical specifications (general)

Input voltage range 600-2000 VA models, 70% load	120-264 Vac
Input voltage range 3000-4000 VA models, 70% load	160-264 Vac
Input frequency	50 or 60 Hz ± 5%
Output voltage 600-1500 VA models	230 Vac ± 2%
Output voltage 2000-4000 VA models	220/230/240 Vac ± 1%
Output frequency	50 or 60 Hz, front selectable
Ambient operating temperature	-10 to 40°C
Relative humidity	95% non-condensing
Audible noise	35-45 dB(A)
Communication interface	USB; RS232; Plug and Play; open collector alarm contacts
Protection degree	IP20

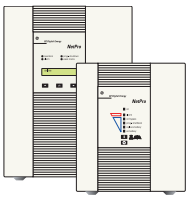
Runtime table (minutes)

NetPro Series model	**600**	**1000**	**1500**	**2000**	**3000**	**4000**
at typical UPS load (75%)	*14*	*13*	*11*	*14*	*14*	*11*
Watts 60	55	85	116	186	247	276
120	32	51	71	113	159	178
240	16	27	38	61	91	102
360	9	17	25	41	63	70
600	-	8	13	23	37	42
900	-	-	7	14	24	27
1200	-	-	-	9	16	19
1500	-	-	-	-	12	14
1800	-	-	-	-	9	11
2400	-	-	-	-	-	7

NetPro Series - double conversion UPS

NetPro Series

2000-4000 VA



600-1500 VA

Rating (VA / W)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Battery (V/Ah)	No. of outlets IEC 320	DC connector (batt. ext.)	Ref. No.
600/360	9	225x185x430	13.0	24/7	2	no	**912332**
1000/600	8	225x185x430	15.5	36/7	2	yes	**912333**
1500/900	7	225x185x430	18.0	48/7	2	no	**912334**
2000/1200	9	293x220x557	29.0	72/7	2	yes	**912335**
3000/1800	9	293x220x557	38.0	108/7	2+1 [1]	yes	**912337**
4000/2400	7	293x220x557	42.0	120/7	2+1 [1]	no	**912339**

NetPro ISO

galvanic isolation

2000/1200	9	293x220x557	40.0	72/7	2	yes	**912336**
3000/1800	9	293x220x557	50.0	108/7	2+1 [1]	yes	**912338**

(1) programme output

Battery packs

for NetPro (ISO)

to increase runtime

for NP 1000	35	225x185x430	19.0	36/14	-	yes	**912341**
for NP 1000	-	225x185x430	4.0	no batt.	-	yes	**912340**
for NP 2000	22	293x220x557	19.0	72/7	-	yes	**912342**
for NP 2000	36	293x220x557	35.0	72/14	-	yes	**912343**
for NP 2000	52	293x220x557	50.0	72/21	-	yes	**912345**
for NP 2000	-	293x220x557	4.0	no batt.	-	yes	**912344**
for NP 3000	22	293x220x557	27.0	108/7	-	yes	**912346**
for NP 3000	37	293x220x557	50.0	108/14	-	yes	**912348**
for NP 3000	-	293x220x557	4.0	no batt.	-	yes	**912347**

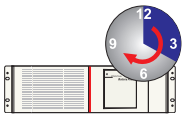
NetPro 19 inch

600-2000 VA: 3HU

600/360	9	3HUx19"x440mm	19.0	24/7	4	no	**912444**
1000/600	8	3HUx19"x440mm	22.0	36/7	4	no	**912445**
1500/900	7	3HUx19"x440mm	24.0	48/7	4	yes	**912446**
2000/1200	9	3HUx19"x440mm	29.0	72/7	4	yes	**912447**
3000/1800	9	6HUx19"x440mm	52.0	108/7	4	yes	**915573**

Battery pack

for NetPro 19 inch

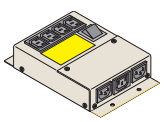


to increase runtime

for NP 1000	35	3HUx19"x440mm	28.0	36/14	-	yes	**912449**
for NP 1000	70	3HUx19"x440mm	42.5	36/28	-	yes	**912450**
for NP 2000	36	3HUx19"x440mm	42.5	72/14	-	yes	**912451**
for NP 3000	22	3HUx19"x440mm	35.0	108/7	-	yes	**912452**

Options

Manual service bypass



Manual service bypass box, hxwxd = 53x130x204mm	**912349**
DC cable (1.5m) for 3rd party external battery NetPro 1000	**910042**
DC cable (1.5m) for 3rd party external battery NetPro 2000	**910043**
DC cable (1.5m) for 3rd party external battery NetPro 3000	**910044**

LP 11 Series - double conversion UPS

Applications

The on-line LP UPS Series is designed for a range of mission-critical applications. The LP UPS is easy to install and service, optimised for the office environment. The robust design allows for more traditional industrial applications.

Characteristics

The LP 11 UPS is a 1-phase in / 1-phase out, true VFI (Voltage & Frequency Independent) on-line double conversion, intelligent and heavy duty UPS. The VFI design concept enables the highest level of protection even under the toughest conditions.

The system power and reliability can be easily expanded by adding units, creating a redundant system with no single points of failure, utilizing GE's unique Redundant Parallel Architecture™ (RPA™) technology.

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 50091-1-1; EN 60950; IEC 60950
EMC: EN 50091-2; IEC 62040-2
Surge capability: IEC 61000-4-5 (6kV 1.2/50µs, 3kA 8/20µs)

CE

Technical specifications (general)

Input voltage range	172-285 Vac
Input frequency range	40-70 Hz
Output voltage	220/230/240 Vac ± 1% (user selectable)
Output frequency	50 or 60 Hz, front selectable
Environment	IP 20 (IEC 60529)
Ambient operating temperature	-10 to 40°C
Relative humidity	95% non-condensing
Audible noise	40-55 dB(A), load and temperature dependent
Interfacing	std: RS232; optional: potential free contacts, SNMP
Standard features	ECO mode, SBM Superior Battery Management, boost charging
RPA	optional
Battery extension	optional for 5-10 kVA models, not available for 3 kVA
Backfeed protection	optional for 3-6 kVA models, not available for 8-10 kVA
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table (minutes)

LP 11 UPS model		**3-11**	**5-11**	**6-11**	**8-11**	**10-11**
at typical UPS load (75%)		*16*	*16*	*12*	*18*	*12*
VA/Watts	1000 / 800	34	62	62	112	112
	2000 / 1600	15	30	30	57	57
	3000 / 2400	8	14	14	37	37
	5000 / 4000	-	9	9	20	20
	6000 / 4800	-	-	7	16	16
	8000 / 6400	-	-	-	10	10
	10000 / 8000	-	-	-	-	7

LP 11 Series - double conversion UPS

	Rating (kVA)	Battery (V/Ah)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	DC connector (batt. ext.)	Ref. No.
LP 11 *with batteries*							
	3	144/7	8	537x313x590	85	no (1)	*
	5	240/7	9	537x313x590	110	yes	*
	6	240/7	7	537x313x590	115	yes	*
	8	240/12	10	680x313x720	165	yes	*
	10	240/12	7	680x313x720	170	yes	*
LP 11 *parallel with batteries*							
	3	144/7	8	537x313x590	85	no (1)	*
	5	240/7	9	537x313x590	110	yes	*
	6	240/7	7	537x313x590	115	yes	*
	8	240/12	10	680x313x720	165	yes	*
	10	240/12	7	680x313x720	170	yes	*
LP 11 *without batteries*							
	3	-	-	537x313x590	53	no (1)	*
	5	-	-	537x313x590	58	yes	*
	6	-	-	537x313x590	63	yes	*
	8	-	-	680x313x720	93	yes	*
	10	-	-	680x313x720	98	yes	*
LP 11 *parallel without batteries*							
	3	-	-	537x313x590	53	no (1)	*
	5	-	-	537x313x590	58	yes	*
	6	-	-	537x313x590	63	yes	*
	8	-	-	680x313x720	93	yes	*
	10	-	-	680x313x720	98	yes	*
Battery cabinets *with batteries*							
	for LP 5-11	240/7	24	537x313x590	70	no	*
	for LP 5-11	240/14	40	537x313x590	120	yes	*
	for LP 6-11	240/7	19	537x313x590	70	no	*
	for LP 6-11	240/14	32	537x313x590	120	yes	*
	for LP 8-11	240/7	20	537x313x590	70	no	*
	for LP 8-11	240/14	29	537x313x590	120	yes	*
	for LP 10-11	240/7	15	537x313x590	70	no	*
	for LP 10-11	240/14	23	537x313x590	120	yes	*
Battery cabinets *without batteries*							
	for LP 5/6/8/10-11	-	-	537x313x590	20	-	*
Options *for LP 11*							
	RPA Redundant Parallel Architecture kit (1 per unit)						*
	Backfeed relay for LP 3/5/6-11						*
	Connector and cable for 3rd party external battery						*

(1) For longer runtimes choose LP 5-11

* For ordering please contact customer service.

LP 31T Series - double conversion UPS

Applications

The on-line LP UPS Series is designed for a range of mission-critical applications. The LP UPS is easy to install and service, optimised for the office environment. The robust design allows for more traditional industrial applications.

Characteristics

The LP 31T UPS is a 3-phase in / 1-phase out, true VFI (Voltage & Frequency Independent) on-line double conversion, intelligent and heavy duty UPS. The VFI design concept enables the highest level of protection even under the toughest conditions.

The system power and reliability can be easily expanded by adding units, creating a redundant system with no single points of failure, utilizing GE's unique Redundant Parallel Architecture™ (RPA™) technology.

The LP 31T is a LP 11 UPS equipped with a 3-1 phase conversion input transformer, galvanically separating the UPS from the incoming 3-phase mains.

Standards / Marking

Safety: EN 50091-1-1; EN 60950; IEC 60950
EMC: EN 50091-2; IEC 62040-2
Surge capability: IEC 61000-4-5 (6kV 1.2/50µs, 3kA 8/20µs)

CE

Function

Providing exceptionally reliable protection for electrical equipment

Technical specifications (general)

Input voltage range	340-470 Vac
Input frequency range	40-70 Hz
Output voltage	220/230/240 Vac ± 1% (user selectable)
Output frequency	50 or 60 Hz, front selectable
Environment	IP 20 (IEC 60529)
Ambient operating temperature	-10 to 40°C
Relative humidity	95% non-condensing
Audible noise	40-55 dB(A), load and temperature dependent
Interfacing	std: RS232; optional: potential free contacts, SNMP
Standard features	ECO mode, SBM Superior Battery Management, boost charging
RPA	optional
Battery extension	optional
Backfeed protection	standard available
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table (minutes)

LP 31T UPS model		**5-31T**	**6-31T**	**8-31T**	**10-31T**
at typical UPS load (75%)		*16*	*12*	*18*	*12*
VA/Watts	1000 / 800	62	62	112	112
	2000 / 1600	30	30	57	57
	3000 / 2400	14	14	37	37
	5000 / 4000	9	9	20	20
	6000 / 4800	-	7	16	16
	8000 / 6400	-	-	10	10
	10000 / 8000	-	-	-	7

LP 31T Series - double conversion UPS

	Rating (kVA)	Battery (V/Ah)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	DC connector (batt. ext.)	Ref. No.
LP 31T *with batteries*							
	5	240/7	9	855x313x590	180	yes	*
	6	240/7	7	855x313x590	185	yes	*
	8	240/12	10	995x313x720	270	yes	*
	10	240/12	7	995x313x720	275	yes	*
LP 31T *parallel with batteries*							
	5	240/7	9	855x313x590	180	yes	*
	6	240/7	7	855x313x590	185	yes	*
	8	240/12	10	995x313x720	270	yes	*
	10	240/12	7	995x313x720	275	yes	*
LP 31T *without batteries*							
	5	-	-	855x313x590	128	yes	*
	6	-	-	855x313x590	133	yes	*
	8	-	-	995x313x720	198	yes	*
	10	-	-	995x313x720	203	yes	*
LP 31T *parallel without batteries*							
	5	-	-	855x313x590	128	yes	*
	6	-	-	855x313x590	133	yes	*
	8	-	-	995x313x720	198	yes	*
	10	-	-	995x313x720	203	yes	*
Battery cabinets *with batteries*							
	for LP 5-31T	240/7	24	537x313x590	70	no	*
	for LP 5-31T	240/14	40	537x313x590	120	yes	*
	for LP 6-31T	240/7	19	537x313x590	70	no	*
	for LP 6-31T	240/14	32	537x313x590	120	yes	*
	for LP 8-31T	240/7	20	537x313x590	70	no	*
	for LP 8-31T	240/14	29	537x313x590	120	yes	*
	for LP 10-31T	240/7	15	537x313x590	70	no	*
	for LP 10-31T	240/14	23	537x313x590	120	yes	*
Battery cabinets *without batteries*							
	for 5-10 kVA	-	-	537x313x590	20	-	*
Options *for LP 31T*							
	RPA Redundant Parallel Architecture kit (1 per unit)						*
	Connector and cable for 3rd party external battery						*

* For ordering please contact customer service.

LP 31 Series - double conversion UPS

Applications

The on-line LP UPS Series is designed for a range of mission-critical applications. The LP UPS is easy to install and service, optimised for the office environment. The robust design allows for more traditional industrial applications.

Characteristics

The LP 31 UPS is a 3-phase in / 1-phase out, true VFI (Voltage & Frequency Independent) on-line double conversion, intelligent and heavy duty UPS. The VFI design concept enables the highest level of protection even under the toughest conditions.

The transformerless design provides a high efficiency. In the ECO Mode the efficiency can be even further increased. The batteries are easy to replace by acces via the front. Superior Battery Management optimizes the lifespan of the batteries and keeps you from surprises.

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 50091-1-1; EN 60950; IEC 60950
EMC: EN 50091-2; IEC 62040-2

CE

Technical specifications (general)

Input voltage range	300-470 Vac
Input frequency range	45-65 Hz
Output voltage	220/230/240 Vac ± 1% (user selectable)
Output frequency	50 or 60 Hz, front selectable
Environment	IP 20 (IEC 60529)
Ambient operating temperature	-10 to 40°C
Relative humidity	95% non-condensing
Audible noise	40-55 dB(A), load and temperature dependent
Interfacing	std: RS232; optional: potential free contacts, SNMP
Standard features	ECO mode, SBM Superior Battery Management
Battery extension	optional
Backfeed protection	standard available
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table (minutes)

LP 31 UPS model		**8-31** [1]	**10-31** [1]	**15-31** [2]	**20-31** [2]
at typical UPS load (75%)		*22*	*16*	*23*	*13*
VA/Watts	4000 / 3200	35	35	75	75
	5000 / 4000	24	24	56	56
	8000 / 6400	14	14	28	28
	10000 / 8000	-	10	24	24
	15000 / 12000	-	-	13	13
	20000 / 16000	-	-	-	10

(1) 7Ah battery (2) 14Ah battery

LP 31 Series - double conversion UPS

LP 8-31

	Battery capacity (V/Ah)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
LP 8-31 UPS 8 kVA without battery	-	-	1190x410x890	135	*
LP 8-31 UPS with 7Ah battery in UPS cabinet	240/7	14	1190x410x890	250	*
LP 8-31 UPS with 14Ah battery in UPS cabinet	240/12	36	1190x410x890	355	*

LP 10-31

LP 10-31 UPS 10 kVA without battery	-	-	1190x410x890	135	*
LP 10-31 UPS with 7Ah battery in UPS cabinet	240/7	10	1190x410x890	250	*
LP 10-31 UPS with 14Ah battery in UPS cabinet	240/14	25	1190x410x890	355	*

LP 15-31

LP 15-31 UPS 15 kVA without battery	-		1190x410x890	150	*
LP 15-31 UPS with 14Ah battery in UPS cabinet	240/14	13	1190x410x890	365	*

LP 20-31

LP 20-31 UPS 20 kVA without battery	-	-	1190x410x890	150	*
LP 20-31 UPS with 14Ah battery in UPS cabinet	240/14	10	1190x410x890	365	*

Options

battery cabinets and -charger

Battery cabinet without batteries			925x410x890	85	*
Battery cabinet with batteries 2x240V/14Ah			925x410x890	300	*
Battery charger 4.2A, necessary for battery capacity over 14Ah on LP 8-31 and LP 10-31 with capacity > 14Ah			-	-	*

Options

special

Wooden crate (per cabinet) mandatory for sea and air freights			-	-	*

Runtime selection table

Runtimes (minutes) at full load, power factor 0.8

		LP 8-31	LP 10-31	LP 15-31	LP 20-31
1 battery cabinet	7 Ah battery in UPS	58	40	-	-
	14 Ah battery in UPS	80	58	33	25
2 battery cabinets	7 Ah battery in UPS	101	78	-	-
	14 Ah battery in UPS	125	96	55	41

* For ordering please contact customer service.

LP 33 10-30 Series - double conversion UPS

Applications

The on-line LP UPS Series is designed for a range of mission-critical applications. The LP UPS is easy to install and service, optimised for the office environment. The robust design allows for more traditional industrial applications.

Characteristics

The LP 33 UPS is a 3-phase in / 3-phase out, true VFI (Voltage & Frequency Independent) on-line double conversion, intelligent and heavy duty UPS. The VFI design concept enables the highest level of protection even under the toughest conditions.

The system power and reliability can be easily expanded by adding units, creating a redundant system with no single points of failure, utilizing GE's unique Redundant Parallel Architecture™ (RPA™) technology.

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 50091; IEC 62040
Protection: IEC60529
EMC: EN 50091-2 (Class A)

CE

Technical specifications (general)

Input voltage range	324-478 Vac
Input frequency range	45-65 Hz
Output voltage	380/400/415 Vac ± 1% (user selectable)
Output frequency	50 or 60 Hz, front selectable
Environment	IP 20 (IEC 60529)
Ambient operating temperature	0 to 40°C
Relative humidity	95% non-condensing
Audible noise	40-55 dB(A), load and temperature dependent
Interfacing	std: RS232; potential free contacts, SNMP
Standard features	SBM Superior Battery Management
Battery extension	optional
Backfeed protection	standard available
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table (minutes) (1)

LP 33 UPS model		**10-33**	**20-33**	**30-33**
at typical UPS load (75%)		*15*	*15*	*15*
VA/Watts	3000 / 2400	48	90	130
	5000 / 4000	27	57	80
	8000 / 6400	14	35	53
	10000 / 8000	10	27	42
	15000 / 12000	-	15	28
	20000 / 16000	-	10	21
	30000 / 24000	-	-	10

(1) with battery: 7Ah 14Ah 21Ah

LP 33 10-30 Series - double conversion UPS

LP 10-33

	Battery capacity (V/Ah)	Runtime (minutes) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
LP 10-33 UPS 10 kVA with 7 Ah battery, single input	240/7	10	1310x500x780	247	*
LP 10-33 UPS 10 kVA with 14 Ah battery, single input	240/14	25	1310x500x780	345	*
LP 10-33 UPS 10 kVA with 7 Ah battery, single input + RPA	240/7	10	1310x500x780	247	*
LP 10-33 UPS 10 kVA with 14 Ah battery, single input + RPA	240/14	25	1310x500x780	345	*
LP 10-33 UPS 10 kVA with 7 Ah battery, dual input	240/7	10	1310x500x780	247	*
LP 10-33 UPS 10 kVA with 14 Ah battery, dual input	240/14	25	1310x500x780	345	*
LP 10-33 UPS 10 kVA with 7 Ah battery, dual input + RPA	240/7	10	1310x500x780	247	*
LP 10-33 UPS 10 kVA with 14 Ah battery, dual input + RPA	240/14	25	1310x500x780	345	*
LP 10-33 UPS 10 kVA without battery, single input	-	-	1310x500x780	113	*
LP 10-33 UPS 10 kVA without battery, single input + RPA	-	-	1310x500x780	113	*
LP 10-33 UPS 10 kVA without battery, dual input	-	-	1310x500x780	113	*
LP 10-33 UPS 10 kVA without battery, dual input, + RPA	-	-	1310x500x780	113	*

LP 20-33

LP 20-33 UPS 20 kVA with 14 Ah battery, single input	240/14	10	1310x500x780	372	*
LP 20-33 UPS 20 kVA with 14 Ah battery, single input + RPA	240/14	10	1310x500x780	372	*
LP 20-33 UPS 20 kVA with 14 Ah battery, dual input	240/14	10	1310x500x780	372	*
LP 20-33 UPS 20 kVA with 14 Ah battery, dual input + RPA	240/14	10	1310x500x780	372	*
LP 20-33 UPS 20 kVA without battery, single input	-	-	1310x500x780	140	*
LP 20-33 UPS 20 kVA without battery, single input + RPA	-	-	1310x500x780	140	*
LP 20-33 UPS 20 kVA without battery, dual input	-	-	1310x500x780	140	*
LP 20-33 UPS 20 kVA without battery, dual input, + RPA	-	-	1310x500x780	140	*

LP 30-33

LP 30-33 UPS 30 kVA with 21 Ah battery, single input	240/21	10	1310x660x780	520	*
LP 30-33 UPS 30 kVA with 21 Ah battery, single input + RPA	240/21	10	1310x660x780	520	*
LP 30-33 UPS 30 kVA with 21 Ah battery, dual input	240/21	10	1310x660x780	520	*
LP 30-33 UPS 30 kVA with 21 Ah battery, dual input + RPA	240/21	10	1310x660x780	520	*
LP 30-33 UPS 30 kVA without battery, single input	-	-	1310x660x780	140	*
LP 30-33 UPS 30 kVA without battery, single input + RPA	-	-	1310x660x780	140	*
LP 30-33 UPS 30 kVA without battery, dual input	-	-	1310x660x780	140	*
LP 30-33 UPS 30 kVA without battery, dual input, + RPA	-	-	1310x660x780	140	*

Options

battery cabinets and -charger

Battery cabinet with 21 Ah batt, including cables (5m) and battery temperature sensor		1050x760x780	450	*
Battery cabinet with 28 Ah batt, including cables (5m) and battery temperature sensor		1050x760x780	570	*
Battery cabinet with 35 Ah batt, including cables (5m) and battery temperature sensor		1050x760x780	690	*
Battery cabinet with 42 Ah batt, including cables (5m) and battery temperature sensor		1050x760x780	810	*
Battery cabinet without batteries, including cables (5m) and battery temperature sensor		1050x760x780	90	*
Mounting set for 7 Ah battery in UPS cabinet (40 blocks) without battery		-	-	*
Mounting set for 2x7 Ah battery in UPS cabinet (80 blocks) without battery		-	-	*
Mounting set for 3x7 Ah battery in UPS cabinet (120 blocks) without battery		-	-	*
Mounting set for each 7 Ah battery in battery cabinet (40 blocks) without battery, incl. fuses		-	-	*
Battery fuse box (with fuses) for LP 10-33		-	-	*
Battery fuse box (with fuses) for LP 20-33		-	-	*
Battery fuse box (with fuses) for LP 30-33		-	-	*
Additional battery charger 4.2 A (can be installed in UPS)		-	-	*

Note: *UPS and battery cabinets without batteries are also without battery mounting sets. To mount locally purchased batteries, order the mounting set.*

Options

special

Wooden crate (per cabinet) mandatory for sea and air freights, 10-20 kVA		-	*
Wooden crate (per cabinet) mandatory for sea and air freights, 30 kVA		-	*
Wooden crate (per cabinet) mandatory for sea and air freights, battery cabinets		-	*

Runtime selection table

Runtimes (minutes) at full load, power factor 0.8

	LP 10-33	LP 20-33	LP 30-33
Battery cabinet with 21 Ah battery	45	20	-
Battery cabinet with 28 Ah battery	60	28	15
Battery cabinet with 35 Ah battery	80	37	22
Battery cabinet with 42 Ah battery	100	45	28

* For ordering please contact customer service.

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 62040-1; EN 60950; IEC 60950
Protection: IEC 60529
EMC: EN 62040-2 (Class A)

CE

LP 33 40-120 Series - double conversion UPS

Applications

The GE Digital Energy LP 33 Series is a highly reliable and cost effective three phase UPS system providing critical power protection for a wide range of applications.

The GE Digital Energy LP 33 40-120 was developed using GE's Design for Six Sigma methodology to ensure that the product fully meets customer requirements and expectations.

Characteristics

The LP 33 UPS is a 3-phase in / 3-phase out, true VFI (Voltage & Frequency Independent) on-line double conversion, intelligent and heavy duty UPS. The VFI design concept enables the highest level of protection even under the toughest conditions.

The LP 33 40-120 UPS offers reliability at its best. The unit is equipped with a redundant power supply ensuring the load being transferred in an instant to the static bypass in the event of a breakdown of the power electronics.

To further increase system reliability, 2 or more units can be connected in parallel. In this way a redundant fault tolerant system is created with maximum availability and reliability. The decentralized bypass offers maximum flexibility to the end-user for future expansion of the system.

Technical specifications (general)

Input voltage range	320-460 Vac
Input frequency range	50-60 Hz ± 10%
Output voltage	3x380/400/415 Vac (user selectable)
Output frequency	50 or 60 Hz ± 0.1% (user selectable)
Efficiency	93% (on ECO Mode 99%)
Input power factor	0.98
Input current THDi at 20-100% load	< 10% (< 5% optional)
Environment	IP 20 (IEC 60529)
Ambient operating temperature	0 to 40°C
Relative humidity	95% non-condensing
Audible noise	40 kVA: <60 dB(A), 60-120 kVA: <65 dB(A), load and temperature dependent
Interfacing	std: RS232; 4 alarm contacts, SNMP interface (optional)
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table (100% load, minutes)

LP 33 UPS model	**40-33**	**60-33**	**80-33**	**100-33**	**120-33**
Capacity of battery set (V/Ah)					
480/22	8	-	-	-	-
480/33	12	9	-	-	-
480/50	-	12	10	-	-
480/66	-	19	12	10	9

LP 33 40-120 Series - double conversion UPS

		Battery capacity (V/Ah)	Runtime (min) at load 100%	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
LP 40-33						
	LP 40-33 UPS 40 kVA without battery, THDi < 10%	-	-	1400x600x725	220	*
	LP 40-33 UPS 40 kVA without battery, THDi < 5%	-	-	1400x600x725	220	*
LP 60-33						
	LP 60-33 UPS 60 kVA without battery, THDi < 10%	-	-	1800x600x725	280	*
	LP 60-33 UPS 60 kVA without battery, THDi < 5%	-	-	1800x600x725	280	*
LP 80-33						
	LP 80-33 UPS 80 kVA without battery, THDi < 10%	-	-	1800x600x725	290	*
	LP 80-33 UPS 80 kVA without battery, THDi < 5%	-	-	1800x600x725	290	*
LP 100-33						
	LP 100-33 UPS 100 kVA without battery, THDi < 10%	-	-	1800x725x725	400 (1)	*
	LP 100-33 UPS 100 kVA without battery, THDi < 5%	-	-	1800x725x725	400 (1)	*
LP 120-33						
	LP 120-33 UPS 120 kVA without battery, THDi < 10%	-	-	1800x725x725	450 (1)	*
	LP 120-33 UPS 120 kVA without battery, THDi < 5%	-	-	1800x725x725	450 (1)	*

(1) preliminary

Battery cabinets *with batteries*				
	Battery cabinet with 480 V / 22 Ah battery for LP 40-33 with fuses	1400x430x725	360	*
	Battery cabinet with 480 V / 33 Ah battery for LP 40-33 with fuses	1400x430x725	500	*
	Battery cabinet with 480 V / 33 Ah battery for LP 60/80-33 ***without*** fuses	1800x430x725	520	*
	Battery cabinet with 480 V / 50 Ah battery for LP 60/80-33 ***without*** fuses	1800x600x725	775	*
	Battery cabinet with 480 V / 2x33 Ah battery for LP 60/80-33 ***without*** fuses	1800x600x725	960	*
	Battery cabinet with 480 V / 2x33 Ah battery for LP 100/120-33 ***without*** fuses	1800x780x725	1010	*
Battery cabinets *without batteries*				
	Battery cabinet without battery for LP 40-33 with fuses	1400x430x725	95	*
	Battery cabinet without battery for LP 60/80-33 ***without*** fuses	1800x430x725	115	*
	Battery cabinet without battery for LP 60/80-33 ***without*** fuses	1800x600x725	140	*
	Battery cabinet without battery for LP 100/120-33 ***without*** fuses	1800x780x725	160	*
	Battery fuse box for LP 40-33 with fuses	300x150x200	-	*
	Battery fuse box for LP 60/80-33 ***without*** fuses	400x200x300	-	*
	Battery fuse box for LP 100/120-33 ***without*** fuses	600x200x400	-	*
	Battery fuse kit for LP 60-33	-	-	*
	Battery fuse kit for LP 80-33	-	-	*
	Battery fuse kit for LP 100-33	-	-	*
	Battery fuse kit for LP 120-33	-	-	*
Options *mounted in factory*				
	RPA Redundant Parallel Architecture		-	*
	Separate bypass input for LP 40-33		-	*
	Separate bypass input for LP 60-33		-	*
	Separate bypass input for LP 80-33		-	*
	Separate bypass input for LP 100/120-33		-	*
Options *field installable*				
	RPA Redundant Parallel Architecture (field installed)		-	*
	Extended customer interface card (6 relay contacts)		-	*
	Bottom Grid for cabinet 430x725 mm		-	*
	Bottom Grid for cabinet 600x725 mm		-	*
	Bottom Grid for cabinet 725x725 mm		-	*
	Bottom Grid for cabinet 780x725 mm		-	*
Options *special*				
	Seaworthy packing (also for air freights), LP 40-33		-	*
	Seaworthy packing (also for air freights), LP 60/80/100/120-33		-	*

Runtime selection table *Runtimes (minutes) at full load, power factor 0.8*

	LP 40-33	LP 60-33	LP 80-33	LP 100-33	LP 120-33
Battery cabinet with 22 Ah battery for LP 40-33	8	-	-	-	-
Battery cabinet with 33 Ah battery for LP 40-33	12	-	-	-	-
Battery cabinet with 33 Ah battery for LP 60/80-33	-	9	-	-	-
Battery cabinet with 50 Ah battery for LP 60/80-33	-	12	9	-	-
Battery cabinet with 2x33 Ah battery for LP 60/80-33	-	18	12	-	-
Battery cabinet with 2x33 Ah battery for LP 100/120-33	-	-	-	10	9

* For ordering please contact customer service.

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 50091; 62040-1-2
EMC: EN 50091-2; EN 62040-2

CE

SitePro Series - double conversion UPS

Applications

The on-line SitePro UPS is an extremely reliable UPS providing critical power protection for a wide range of demanding mission-critical applications such as computer and data centers, medical facilities, broadcasting and satellite transmission systems, manufacturing and process control units, security systems, financial institutions, transportation infrastructure etc. etc.

Characteristics

The SitePro family of 3-phase in / 3-phase out high-performance UPS systems operates in a double conversion mode (providing true on-line operation), thus providing the highest levels of power reliability. Each UPS is fully compliant with international standards regarding Voltage and Frequency Independent (VFI) operation. True VFI makes the GE SitePro an extremely reliable UPS for data security and other demanding critical applications, even under the toughest conditions.

The SitePro UPS is available in models from 10 kVA up to 500 kVA. For high-power redundant applications, the GE SitePro can be installed with up to eight units in parallel achieving power protection up to 4 MVA. The systems are controlled in a true peer-to-peer configuration with redundancy in all critical elements and functions, utilizing GE's unique Redundant Parallel Architecture™ (RPA™) technology. This advanced technology provides the highest possible system reliability for mission critical applications with no single points of failure.

Technical specifications

Technical specifications (model dependent)

Output power rating	(kVA)	10	15	20	30	40	60	150	200	250	300	400	500
Output power factor		1	1	1	1	1	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Output power rating	(kW)	10	15	20	30	40	54	135	180	225	270	360	450
Dimensions		A	A	A	A	A	B	C	C	D	D	E	E
Weight (without batteries)	kg	240	290	290	320	350	475	930	1000	1450	1550	2725	2950
Noise level (DIN 45630)	dB(A)	48	50	50	55	60	60	65	65	68	68	70	70

Dimensions (hxwxd, mm):
A = 1450x680x800
B = 1450x750x800
C = 1800x1100x800
D = 1800x1550x800
E = 1800x2600x800

Technical specifications (general)

Input voltage range	320-460 Vac
Input frequency range	45-66 Hz
Output voltage	3x380/400/415 Vac + N ± 1% (user selectable)
Output frequency	50 or 60 Hz (user selectable)
Output distortion at linear load	< 2%
Output distortion at non-linear load	< 3%
Crest factor	> 3:1
Overload capability on inverter	125% 10 min., 150% 1 min. (400-500 kVA 30 sec.)
Output voltage regulation - static	± 1%
Output voltage regulation - dynamic	± 3%
Overall efficiency at 100% load (double conversion mode)	up to 94.5%
Environment	IP 20 (IEC 60529)
Ambient operating temperature	0 to 40°C
Relative humidity	95% non-condensing
Interfacing	std: RS232; potential free contacts, programmable relays
Battery extension	optional
Backfeed protection	standard available
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table 80-120 kVA [(1)] (100% load, minutes)

LP 33 UPS model	**10 kVA**	**15 kVA**	**20 kVA**	**30 kVA**	**40 kVA**	**60 kVA**
Capacity of battery set (V/Ah)						
360 / 10	8	-	-	-	-	-
360 / 17	15	10	6	-	-	-
360 / 24	30	15	10	6	-	-
360 / 33	43	24	16	10	6	-
360 / 38	50	30	20	12	7	-
360 / 65	100	60	40	25	17	10
360 / 76	120	70	50	30	20	12

(1) For the full SitePro range (10-500 kVA) runtimes are possible from 5 minutes up to 4 hours.
Contact your dealer for customised battery solutions not mentioned in this catalogue.

SitePro Series - double conversion UPS

SitePro 10

	Battery capacity (V/Ah)	Runtime (min) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
SitePro 10 kVA without battery, with 6 pulse rectifier	-	-	1450x680x800	240	*
RPA kit installed in factory	-	-	-	-	*
10 Ah battery in UPS cabinet	360/10	8	-	140	*
17 Ah battery in UPS cabinet	360/17	15	-	230	*
24 Ah battery in UPS cabinet	360/24	30	-	290	*
33 Ah battery in UPS cabinet	360/33	43	-	400	*
10 Ah battery mounted in separate cabinet	360/10	8	1450x500x800	230	*
17 Ah battery mounted in separate cabinet	360/17	15	1450x500x800	290	*
24 Ah battery mounted in separate cabinet	360/24	30	1450x500x800	370	*
38 Ah battery mounted in separate cabinet	360/38	50	1450x500x800	530	*
65 Ah battery mounted in separate cabinet	360/65	100	1450x750x800	790	*
2x38 Ah battery mounted in separate cabinet	360/76	120	1450x1100x800	1030	*
Battery fuses for cabinet	-	-	-	-	*
Battery fuse box (with fuses)	-	-	300x200x150	-	*
Battery contactor mounted in UPS cabinet	-	-	-	-	*
Input isolation transformer mounted in UPS cabinet batt. cavity	-	-	-	-	*
Input filter for 5th harmonic with power factor correction, mounted inside the batt. cavity for 50Hz	-	-	-	-	*
Output cabinet 4x	-	-	1450x500x800	-	*

SitePro 15

SitePro 15 kVA without battery, with 6 pulse rectifier	-	-	1450x680x800	290	*
RPA kit installed in factory	-	-	-	-	*
17 Ah battery in UPS cabinet	360/17	10	-	230	*
24 Ah battery in UPS cabinet	360/24	15	-	290	*
33 Ah battery in UPS cabinet	360/33	24	-	400	*
17 Ah battery mounted in separate cabinet	360/17	10	1450x500x800	290	*
24 Ah battery mounted in separate cabinet	360/24	15	1450x500x800	370	*
38 Ah battery mounted in separate cabinet	360/38	30	1450x500x800	530	*
65 Ah battery mounted in separate cabinet	360/65	60	1450x750x800	790	*
2x38 Ah battery mounted in separate cabinet	360/76	70	1450x1100x800	1030	*
Battery fuses for cabinet	-	-	-	-	*
Battery fuse box (with fuses)	-	-	300x200x150	-	*
Battery contactor mounted in UPS cabinet	-	-	-	-	*
Input isolation transformer mounted in UPS cabinet batt. cavity	-	-	-	-	*
Input filter for 5th harmonic with power factor correction, mounted inside the batt. cavity for 50Hz	-	-	-	-	*
Output cabinet 4x	-	-	1450x500x800	-	*

SitePro 20

SitePro 20 kVA without battery, with 6 pulse rectifier	-	-	1450x680x800	290	*
RPA kit installed in factory	-	-	-	-	*
17 Ah battery in UPS cabinet	360/17	6	-	230	*
24 Ah battery in UPS cabinet	360/24	10	-	290	*
33 Ah battery in UPS cabinet	360/33	16	-	400	*
17 Ah battery mounted in separate cabinet	360/17	6	1450x500x800	290	*
24 Ah battery mounted in separate cabinet	360/24	10	1450x500x800	370	*
38 Ah battery mounted in separate cabinet	360/38	20	1450x500x800	530	*
65 Ah battery mounted in separate cabinet	360/65	40	1450x750x800	790	*
2x38 Ah battery mounted in separate cabinet	360/76	50	1450x1100x800	1030	*
Battery fuses for cabinet	-	-	-	-	*
Battery fuse box (with fuses)	-	-	300x200x150	-	*
Battery contactor mounted in UPS cabinet	-	-	-	-	*
Input isolation transformer mounted in UPS cabinet batt. cavity	-	-	-	-	*
Input filter for 5th harmonic with power factor correction, mounted inside the batt. cavity for 50Hz	-	-	-	-	*
Output cabinet 4x	-	-	1450x500x800	-	*

* For ordering please contact customer service.

SitePro Series - double conversion UPS

SitePro 30

	Battery capacity (V/Ah)	Runtime (min) at 100% load	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
SitePro 30 kVA without battery, with 6 pulse rectifier	-	-	1450x680x800	320	*
RPA kit installed in factory	-	-	-	-	*
24 Ah battery in UPS cabinet	360/24	6	-	290	*
33 Ah battery in UPS cabinet	360/33	10	-	400	*
24 Ah battery mounted in separate cabinet	360/24	6	1450x500x800	370	*
38 Ah battery mounted in separate cabinet	360/38	12	1450x500x800	530	*
65 Ah battery mounted in separate cabinet	360/65	25	1450x750x800	790	*
2x38 Ah battery mounted in separate cabinet	360/76	30	1450x1100x800	1030	*
Battery fuses for cabinet	-	-	-	-	*
Battery fuse box (with fuses)	-	-	300x200x150	-	*
Battery contactor mounted in UPS cabinet	-	-	-	-	*
Input isolation transformer mounted in UPS cabinet batt. cavity	-	-	-	-	*
Input filter for 5th harmonic with power factor correction, mounted inside the batt. cavity for 50Hz	-	-	-	-	*
Output cabinet 4x	-	-	1450x500x800	-	*

SitePro 40

SitePro 40kVA without battery, with 6 pulse rectifier	-	-	1450x680x800	350	*
SitePro 40kVA without battery, prepared for 12 pulse rectifier	-	-	1450x680x800	350	*
RPA kit installed in factory	-	-	-	-	*
33 Ah battery in UPS cabinet	360/33	6	-	400	*
38 Ah battery mounted in separate cabinet	360/38	7	1450x500x800	530	*
65 Ah battery mounted in separate cabinet	360/65	17	1450x750x800	790	*
2x38 Ah battery mounted in separate cabinet	360/76	20	1450x1100x800	1030	*
Battery fuses for cabinet	-	-	-	-	*
Battery fuse box (with fuses)	-	-	300x200x150	-	*
Battery contactor mounted in UPS cabinet	-	-	-	-	*
Input isolation transformer mounted in UPS cabinet batt. cavity	-	-	-	-	*
12 pulse rectifier without galv. separation in separate cabinet	-	-	1450x500x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	-	-	1450x500x800	-	*
Input isolation transformer in separate cabinet	-	-	1450x500x800	-	*
Input filter for 5th harmonic with power factor correction, mounted inside the batt. cavity for 50Hz	-	-	-	-	*
Output cabinet 4x	-	-	1450x500x800	-	*

SitePro 60

SitePro 60kVA without battery, with 6 pulse rectifier	-	-	1450x750x800	475	*
SitePro 60kVA without battery, prepared for 12 pulse rectifier	-	-	1450x750x800	475	*
RPA kit installed in factory	-	-	-	-	*
65 Ah battery mounted in separate cabinet	360/65	10	1450x750x800	790	*
2x38 Ah battery mounted in separate cabinet	360/76	12	1450x1100x800	1030	*
Battery fuses for cabinet	-	-	-	-	*
Battery fuse box (with fuses)	-	-	400x300x200	-	*
Input isolation transformer in separate cabinet	-	-	1450x500x800	-	*
12 pulse rectifier without galv. separation in separate cabinet	-	-	1450x500x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	-	-	1450x500x800	-	*
Input filter for 5th harmonic with power factor correction, mounted inside the batt. cavity for 50Hz	-	-	1450x500x800	-	*
Output cabinet 4x	-	-	1450x1100x800	-	*

* For ordering please contact customer service.

SitePro Series - double conversion UPS

SitePro 150

	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
SitePro 150 kVA without battery, with 6 pulse rectifier	1800x1100x800	925	*
SitePro 150 kVA without battery, prepared for 12 pulse rectifier with galv. separation	1800x1100x800	925	*
SitePro 150 kVA without battery, prepared for 12 pulse rectifier without galv. separation	1800x1100x800	925	*
RPA kit installed in factory	-	-	*
Input isolation transformer in separate cabinet	1800x680x800	-	*
12 pulse rectifier without galv. separation in separate cabinet	1800x680x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1800x680x800	-	*
Battery fuse box (with fuses)	600x400x200	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 50Hz	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 60Hz	1800x680x800	-	*
Distortion Control Unit, filter for 5,7,11,13 harmonics, in separate cabinet, for 50Hz	1800x680x800	-	*
Cables for common mains [1]	-	-	*
Output cabinet 2x	1800x1100x800	-	*
Output cabinet 3x	1800x1100x800	-	*
Output cabinet 4x	1800x1550x800	-	*

SitePro 200

SitePro 200 kVA without battery, with 6 pulse rectifier	1800x1100x800	995	*
SitePro 200 kVA without battery, prepared for 12 pulse rectifier with galv. separation	1800x1100x800	995	*
SitePro 200 kVA without battery, prepared for 12 pulse rectifier without galv. separation	1800x1100x800	995	*
RPA kit installed in factory	-	-	*
Input isolation transformer in separate cabinet	1800x680x800	-	*
12 pulse rectifier without galv. separation in separate cabinet	1800x680x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1800x680x800	-	*
Battery fuse box (with fuses)	600x400x200	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier	1800x680x800	-	* *
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 50Hz	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 60Hz	1800x680x800	-	*
Distortion Control Unit, filter for 5,7,11,13 harmonics, in separate cabinet, for 50Hz	1800x680x800	-	*
Cables for common mains [1]	-	-	*
Output cabinet 2x	1800x1100x800	-	
Output cabinet 3x	1800x1100x800	-	*
Output cabinet 4x	1800x1550x800	-	*

SitePro 250

SitePro 250 kVA without battery, with 6 pulse rectifier	1800x1550x800	1450	*
SitePro 250 kVA without battery, prepared for 12 pulse rectifier with galv. separation	1800x1550x800	1450	*
SitePro 250 kVA without battery, prepared for 12 pulse rectifier without galv. separation	1800x1550x800	1450	*
RPA kit installed in factory	-	-	*
12 pulse rectifier without galv. separation in separate cabinet	1800x680x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1800x1100x800	-	*
Battery fuse box (with fuses)	600x400x200	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier without galv. separation	1800x680x800	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier with galv. separation	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 50Hz	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 60Hz	1800x680x800	-	*
Distortion Control Unit, filter for 5,7,11,13 harmonics, in separate cabinet, for 50Hz	1800x680x800	-	*
Cables for common mains [1]	-	-	*
Output cabinet 2x	1800x1100x800	-	*
Output cabinet 3x	1800x1550x800	-	*
Output cabinet 4x	1800x1780x800	-	*

(1) In case of common mains and DCU or filter (input to UPS and bypass) order also the cables

* For ordering please contact customer service.

SitePro Series - double conversion UPS

SitePro 300

	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
SitePro 300 kVA without battery, with 6 pulse rectifier	1800x1550x800	1550	*
SitePro 300 kVA without battery, prepared for 12 pulse rectifier with galv. separation	1800x1550x800	1550	*
SitePro 300 kVA without battery, prepared for 12 pulse rectifier without galv. separation	1800x1550x800	1550	*
RPA kit installed in factory	-	-	*
12 pulse rectifier without galv. separation in separate cabinet	1800x680x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1800x1100x800	-	*
Battery fuse box (with fuses)	600x400x200	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier without galv. separation	1800x680x800	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier with galv. separation	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 50Hz	1800x680x800	-	*
Input filter for 5th harmonic with power factor correction, in separate cabinet, for 60Hz	1800x680x800	-	*
Distortion Control Unit, filter for 5,7,11,13 harmonics, in separate cabinet, for 50Hz	1800x680x800	-	*
Cables for common mains [1]	-	-	*
Output cabinet 2x	1800x1100x800	-	*
Output cabinet 3x	1800x1550x800	-	*
Output cabinet 4x	1800x1780x800	-	*

SitePro 400

SitePro 400 kVA without battery, with 12 pulse rectifier without galv. separation	1800x2600x800	2700	*
SitePro 400 kVA without battery, prepared for 12 pulse rectifier with galv. separation	1800x2600x800	2700	*
RPA kit installed in factory	-	-	*
12 pulse rectifier with galv. separation in separate cabinet	1800x680x800	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier without galv. separation	1800x680x800	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier with galv. separation	1800x680x800	-	*
Distortion Control Unit, filter for 5,7,11,13 harmonics, in separate cabinet, for 50Hz	1800x1100x800	-	*
Battery fuse box (with fuses)	1000x600x260	-	*
Output cabinet 2x	1800x1550x800	-	*
Output cabinet 3x	1800x1780x800	-	*
Output cabinet 4x	1800x1780x800	-	*

SitePro 500

SitePro 500 kVA without battery, with 12 pulse rectifier without galv. separation	1800x2600x800	2900	*
SitePro 500 kVA without battery, prepared for 12 pulse rectifier with galv. separation	1800x2600x800	2900	*
RPA kit installed in factory	-	-	*
12 pulse rectifier with galv. separation in separate cabinet	1800x1100x800	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier without galv. separation	1800x680x800	-	*
Input filter for 11th and 13th harmonic, in separate cabinet, for 50Hz, only with 12 pulse rectifier with galv. separation	1800x680x800	-	*
Distortion Control Unit, filter for 5,7,11,13 harmonics, in separate cabinet, for 50Hz	1800x1100x800	-	*
Battery fuse box (with fuses)	1000x600x260	-	*
Output cabinet 2x	1800x1550x800	-	*
Output cabinet 3x	1800x2200x800	-	*
Output cabinet 4x	1800x2200x800	-	*

(1) In case of common mains and DCU or filter (input to UPS and bypass) order also the cables

* For ordering please contact customer service.

SitePro Series - double conversion UPS

Options
miscellaneous

	Dimensions (hxwxd, mm)	Ref. No.
Kit to convert Single to RPA operation for SitePro S6 (in case of ISM please order kit "version E" below)	-	*
RPA kit factory installed, version E, required in combination with ISM	-	*
Kit to convert Single UPS to RPA operation, version E, required in combination with ISM	-	*
ISM Intelligent Synchronization Module (compatible with RPA version E)	-	*
Data cable for RPA system between unit 6 meters	-	*
Data cable for RPA system between unit 12 meters	-	*
Data cable for RPA system between unit 30 meters	-	*
Data cable for RPA system between unit 85 meters	-	
Maxium distance between the first and the last UPS in one system is 85 meters		*
Additional Customer Interface card (10-500 kVA)	-	*
Remote signalling panel (incl. 24 Vdc Power Supply)	-	*
Remote monitoring system	-	*
Kit to mount Chinese Display for SitePro S6	-	*
Auxiliary Power Supply 24VDC, factory mounted only	-	*
Top cable entry box (10-60 kVA only)	-	*
2 bottom side grids + 1 x side panel for cabinet with factory installed batteries (10-60 kVA)	-	*
Mounting set for battery 10/17/24 AH in 10-30 kVA UPS cabinet	-	*
Mounting set for 33 Ah battery in 10-40 kVA UPS cabinet	-	*
Note: UPS without batteries are also without battery mounting sets. *To mount locally purchased batteries, order the mounting set.*		

Options
battery cabinets

Battery cabinet 500mm with 4 shelves (with 2 side panels and 2 bottom side grids) 10-40 kVA	1450x500x800	*
Battery cabinet 750mm with 4 shelves (with 2 side panels and 2 bottom side grids) 10-60 kVA	1450x750x800	*
Battery cabinet 1100mm with 4 shelves (with 2 side panels and 2 bottom side grids) 10-60 kVA	1450x1100x800	*
Note: Battery cabinets are normally mounted next to the UPS. *For remote placement, order bottom grids and side panel.*		
Battery cabinet 680mm with 4 shelves (3 mobile) c/w 1 x sides (150-500 kVA)	1800x680x800	*
Battery cabinet 1100mm with 4 shelves (3 mobile) c/w 1 x sides (150-500 kVA)	1800x1100x800	*
Battery cabinet 1550mm with 4 shelves (3 mobile) c/w 1 x sides (150-500 kVA)	1800x1550x800	*
2 bottom side grids + 1 x side panel for cabinet (150-500 kVA)	-	*
Note: For all batteries installed on racks, it is recommended that a battery fuse box also be installed. *Note: For battery cabinets that are placed more than 3 meters from the UPS, it is recommended that a battery fuse box (wall-mounted) or battery fuse+holder (inside battery cabinet) also be installed.*		
Battery temperature sensor 5 meter	-	*
Battery temperature sensor 15 meter	-	*
Battery temperature sensor 20 meter	-	*
Battery temperature sensor 30 meter (shielded)	-	*
Empty cabinet 500mm c/w 2 x sides and 2 x bottom grills (10-60 kVA)	1450x500x800	*
Empty cabinet 750mm c/w 2 x sides and 2 x bottom grills (10-60 kVA)	1450x750x800	*
Empty cabinet 1100mm c/w 2 x sides and 2 x bottom grills (10-60 kVA)	1450x1100x800	*
Empty cabinet 680mm c/w 2 x sides and 2 x bottom grills (150-500 kVA)	1800x680x800	*
Empty cabinet 1100mm c/w 2 x sides and 2 x bottom grills (150-500 kVA)	1800x1100x800	*
Empty cabinet 1550mm c/w 2 x sides and 2 x bottom grills (150-500 kVA)	1800x1550x800	*
Note: empty cabinets are battery cabinets without battery shelves		

Options
active filter

Active Filter 45A, 3-wire	800x800x300	*
Active Filter 45A, 3-wire with EMI Filter IEC62040-2 Class A	800x800x300	*
Active Filter 115A, 3-wire	1820x680x800	*
Active Filter 115A, 3-wire with EMI Filter IEC62040-2 Class A	1820x680x800	*

Options
colour

Non standard colour (per cabinet) (10-40 kVA)	-	*
Non standard colour (per cabinet) (60 kVA)	-	*
Non standard colour (per cabinet) (150-500 kVA)	-	*

Options
packing & tests

Wooden crate (per cabinet) mandatory for sea and air freights (10-60 kVA)	-	*
Wooden crate (per cabinet) mandatory for sea and air freights (150-500 kVA)	-	*
Reception test in our factory (per system per day) (10-40 kVA)	-	*
Reception test in our factory (per system per day) (60-500 kVA)	-	*

* For ordering please contact customer service.

Notes

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 62040-1-1; IEC 62040-1-1
EMC: EN 62040-2

CE

SG Series - double conversion UPS

Applications

The on-line SG series UPS is an extremely reliable UPS providing critical power protection for a wide range of demanding mission-critical applications such as computer and data centers, medical facilities, broadcasting and satellite transmission systems, manufacturing and process control units, security systems, financial institutions, transportation infrastructure etc. etc.

Characteristics

The GE Digital Energy 3-phase in / 3-phase out high-performance SG Series is one of the best performing and most reliable three-phase UPS systems providing critical power protection for a wide range of applications. Every SG Series system operates in VFI mode (Voltage Frequency Independent) yielding the maximum levels of power reliability for all mission-critical processes.
The Digital Energy SG Series was developed using GE's Design for Six Sigma methodology to ensure that the product fully meets customer requirements and expectations.

With proven technology the SG Series UPS provides top class reliability and performance. With backfeed protection and compliance to EMC standards the SG Series complies to current and future standards. Reliability can be further increased by paralleling up to eight UPS units utilising GE's unique RPA™ technology (Redundant Parallel Architecture). With RPA every UPS is controlled in a true peer-to-peer configuration with redundancy in all critical elements and functions, eliminating all single points of failure. The decentralised bypass offers great flexibility to up or down grade the system in case future needs might change.

Technical specifications

Technical specifications (model dependent)

Output power rating (kVA)	**80**	**100**	**120**	**160**	**200**
Output power rating (kW)	72	90	108	144	180
Dimensions	A	B	B	C	C
Weight (without batteries), kg	605	830	830	1100*	1300*
Input current THD (optional)	< 6%	< 6%	< 6%	< 5%	< 5%

** preliminary*

Dimensions, hxwxd (mm):
A = 1820x800x800
B = 1820x1200x800
C = 1820x1650x800

Technical specifications (general)

Input voltage range	320-460 Vac
Input frequency range	45-65 Hz
Output voltage	3x380/400/415 Vac (user selectable)
Output frequency	50 or 60 Hz ± 0.01% (user selectable)
Output power factor	0.9
Output voltage THD at linear load	< 1%
Output voltage THD at non-linear load	< 3%
Overload capability on inverter	125% 10 min., 150% 1 min.
Output voltage regulation - static	< ± 1%
Output voltage regulation - dynamic (100% step load)	< ± 2% (recovery time < 20 ms)
System efficiency	98% on super ECO mode
Protection degree	IP 20
Ambient operating temperature	0 to 40°C
Relative humidity	95% non-condensing
Interfacing	std: RS232; potential free contacts, programmable relays
Battery extension	optional
Backfeed protection	standard available
Software compatibility	JUMP DataShield™, JUMP Manager™, IRIS

Runtime table 80-120 kVA [(1)] (100% load, minutes)

SG Series model	**80 kVA**	**100 kVA**	**120 kVA**
Capacity of battery set (V/Ah)			
360 / 1x75	6	(2)	(2)
360 / 1x82	11	8	5
360 / 2x92	33	(2)	(2)
360 / 1x130	(2)	15	10
360 / 2x130	47	(2)	30
360 / 3x110	63	48	(2)
360 / 3x130	(2)	61	46

(1) For the full SG Series range (80-200 kVA) runtimes are possible from 5 minutes up to 3-4 hours.
Contact your dealer for customised battery solutions not mentioned in this catalogue.
(2) This combination of battery set / UPS model is not available.

SG Series - double conversion UPS

SG 80

	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
SG 80 kVA without battery, with 6 pulse rectifier	1820x800x800	605	*
SG 80 kVA without battery, with 6 pulse rectifier, with Class A EMI filter	1820x800x800	605	*
SG 80 kVA without battery, prepared for 12 pulse rectifier	1820x800x800	605	*
SG 80 kVA without battery, prepared for 12 pulse rectifier, with Class A EMI filter	1820x800x800	605	*
RPA kit installed in factory	-	-	*
5th harmonic filter in UPS cabinet for THDi < 8%	-	-	*
5th and 11th harmonic filter in UPS cabinet for THDi < 6%	-	-	*
12 pulse rectifier without galv. separation in separate cabinet	1820x500x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1820x500x800	-	*
Input isolation transformer in separate cabinet	1820x500x800	-	*
Battery fuse box (without fuses)	600x400x200	-	*
Battery fuses for SG 80 kVA	-	-	*
Output cabinet 2x	1820x800x800	-	*
Output cabinet 3x	1820x800x800	-	*
Output cabinet 4x	1820x800x800	-	*
Battery solutions, 10 year lifetime, matching cabinets [1]			
Battery 1x75 Ah, runtime 6 minutes	1x 1820x1200x800	990	*
Battery 1x82 Ah, runtime 11 minutes	1x 1820x1200x800	1170	*
Battery 2x92 Ah, runtime 33 minutes	2x 1820x1200x800	2460	*
Battery 2x130 Ah, runtime 47 minutes	2x 1820x1650x800	3360	*
Battery 3x110 Ah, runtime 63 minutes	3x 1820x1200x800	4230	*

SG 100

SG 100 kVA without battery, with 6 pulse rectifier	1820x1200x800	830	*
SG 100 kVA without battery, with 6 pulse rectifier, with Class A EMI filter	1820x1200x800	830	*
SG 100 kVA without battery, prepared for 12 pulse rectifier	1820x1200x800	830	*
SG 100 kVA without battery, prepared for 12 pulse rectifier, with Class A EMI filter	1820x1200x800	830	*
RPA kit installed in factory	-	-	*
5th harmonic filter in UPS cabinet for THDi < 8%	-	-	*
5th and 11th harmonic filter in UPS cabinet for THDi < 6%	-	-	*
12 pulse rectifier without galv. separation in separate cabinet	1820x500x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1820x500x800	-	*
Input isolation transformer in separate cabinet	1820x500x800	-	*
Battery fuse box (without fuses)	600x400x200	-	*
Battery fuses for SG 100 kVA	-	-	*
Output cabinet 2x	1820x800x800	-	*
Output cabinet 3x	1820x800x800	-	*
Output cabinet 4x	1820x800x800	-	*
Battery solutions, 10 year lifetime, matching cabinets [1]			
Battery 1x82 Ah, runtime 8 minutes	1x 1820x1200x800	1170	*
Battery 1x130 Ah, runtime 15 minutes	1x 1820x1650x800	1680	*
Battery 2x110 Ah, runtime 31 minutes	2x 1820x1200x800	2820	*
Battery 3x110 Ah, runtime 48 minutes	3x 1820x1200x800	4230	*
Battery 3x130 Ah, runtime 61 minutes	3x 1820x1650x800	5040	*

SG 120

SG 120 kVA without battery, with 6 pulse rectifier	1820x1200x800	830	*
SG 120 kVA without battery, with 6 pulse rectifier, with Class A EMI filter	1820x1200x800	830	*
SG 120 kVA without battery, prepared for 12 pulse rectifier	1820x1200x800	830	*
SG 120 kVA without battery, prepared for 12 pulse rectifier, with Class A EMI filter	1820x1200x800	830	*
RPA kit installed in factory	-	-	*
5th harmonic filter in UPS cabinet for THDi < 8%	-	-	*
5th and 11th harmonic filter in UPS cabinet for THDi < 6%	-	-	*
12 pulse rectifier without galv. separation in separate cabinet	1820x500x800	-	*
12 pulse rectifier with galv. separation in separate cabinet	1820x500x800	-	*
Input isolation transformer in separate cabinet	1820x500x800	-	*
Battery fuse box (without fuses)	600x400x200	-	*
Battery fuses for SG 120 kVA	-	-	*
Output cabinet 2x	1820x800x800	-	*
Output cabinet 3x	1820x800x800	-	*
Output cabinet 4x	1820x800x800	-	*
Battery solutions, 10 year lifetime, matching cabinets [1]			
Battery 1x82 Ah, runtime 5 minutes	1x 1820x1200x800	1170	*
Battery 1x130 Ah, runtime 10 minutes	1x 1820x1650x800	1680	*
Battery 2x130 Ah, runtime 30 minutes	2x 1820x1650x800	3360	*
Battery 3x130 Ah, runtime 46 minutes	3x 1820x1650x800	5040	*
Battery 4x130 Ah, runtime 66 minutes	4x 1820x1650x800	6720	*

(1) All runtimes based on nominal load, PF 0.8

* For ordering please contact customer service.

SG Series - double conversion UPS

SG 160

	Dimensions (hxwxd, mm)	Net weight (kg)	Ref. No.
			*
SG 160 kVA without battery, with 6 pulse rectifier	1820x1650x800	1100	*
SG 160 kVA without battery, with 6 pulse rectifier, with Class A EMI filter	1820x1650x800	1100	*
RPA kit installed in factory	-	-	*
5th harmonic filter in UPS cabinet for THDi < 8%	-	-	*
5th and 11th harmonic filter in UPS cabinet for THDi < 6%	-	-	*
Input isolation transformer in separate cabinet	1820x680x800	-	*
Battery fuse box (without fuses)	600x400x200	-	*
Battery fuses for SG 160 kVA	-	-	*
Output cabinet 2x	1820x800x800	-	*
Output cabinet 3x	1820x800x800	-	*
Output cabinet 4x	1820x800x800	-	

SG 200

SG 200 kVA without battery, with 6 pulse rectifier	1820x1650x800	1300	*
SG 200 kVA without battery, with 6 pulse rectifier, with Class A EMI filter	1820x1650x800	1300	*
RPA kit installed in factory	-	-	*
5th harmonic filter in UPS cabinet for THDi < 8%	-	-	*
5th and 11th harmonic filter in UPS cabinet for THDi < 6%	-	-	*
Input isolation transformer in separate cabinet	1820x680x800	-	*
Battery fuse box (without fuses)	600x400x200	-	*
Battery fuses for SG 200 kVA	-	-	*
Output cabinet 2x	1820x800x800	-	*
Output cabinet 3x	1820x800x800	-	*
Output cabinet 4x	1820x800x800	-	*

Options
miscellaneous

RPA kit factory installed, version E, required in combination with ISM	-		*
Kit to convert Single UPS to RPA operation, version E, required in combination with ISM	-		*
ISM Intelligent Synchronization Module (compatible with RPA version E)	-		*
Data cable for RPA system between unit 6 meters	-		*
Data cable for RPA system between unit 12 meters	-		*
Data cable for RPA system between unit 30 meters	-		*
Data cable for RPA system between unit 85 meters	-		*
Maxium distance between the first and the last UPS in one system is 85 meters			
Additional Customer Interface card	-		*
Remote signalling panel (incl. 24 Vdc Power Supply)	-		*
Remote monitoring system	-		*
Auxiliary Power Supply 24VDC, factory mounted only	-		*

Options
battery cabinets

Empty battery cabinet 800mm	1820x800x800		*
Empty battery cabinet 1200mm	1820x1200x800		*
Empty battery cabinet 1650mm	820x1650x800		*
Battery fuse holder and bracket (to be mounted in batt. cabinet in case of no batt. fuse box)	-		*
			*
Battery temperature sensor 5 meter	-		*
Battery temperature sensor 15 meter	-		*
Battery temperature sensor 20 meter	-		*
Battery temperature sensor 30 meter (shielded)	-		*
Battery temperature sensor 60 meter (shielded)	-		*

Options
active filter

Active Filter 45A, 3-wire	800x800x300		*
Active Filter 45A, 3-wire with EMI Filter IEC62040-2 Class A	800x800x300		*
Active Filter 115A, 3-wire	1820x680x800		*
Active Filter 115A, 3-wire with EMI Filter IEC62040-2 Class A	1820x680x800		*

Options
colour

Non standard colour 80-120 kVA (per cabinet)	-		*
Non standard colour 160-200 kVA (per cabinet)	-		*

Options
packing & tests

Wooden crate (per cabinet) mandatory for sea and air freights 80-120 kVA	-		*
Wooden crate (per cabinet) mandatory for sea and air freights 160-200 kVA	-		*
Reception test in our factory (per system per day)	-		*

* For ordering please contact customer service.

Function

Providing exceptionally reliable protection for electrical equipment

Standards / Marking

Safety: EN 60950
EMC: EN 50022 level B,
EN 60555-2-3

CE

STS - Static Transfer Switch

Applications

Static Transfer Switches (STS) are designed to transfer the supply between two independent AC power sources. Unlike traditional automatic transfer switches (ATS), a static transfer switch provides a fast load transfer (typically 1/4 of a cycle), which ensures uninterrupted operation of sensitive electronic equipment. Load retransfer to the preferred input source is virtually instantaneous (typically 0.1 ms). The basic applications of STS are in automatic systems in the power industry, power supply systems for petrochemical industry, computer and telecommunication centres, automatic and security systems of 'intelligent' buildings as well as other equipment which is sensitive to interruptions in the supply.

Characteristics

The excellent overload capability and transfer algorithm enables fast fuse clearance in the event of a short-circuit. As a consequence the voltage immediately returns to normal to supply the other loads. The built-in transient voltage surge suppression system for SCR switches provides additional protection against damage to the supplied equipment.

The static transfer switch consists of two bidirectional thyristor switches for each phase equipped with a control and protection system. The 2 or 4 pole types have an additional neutral line switch. After failure of the preferred source, the STS checks the state of the alternate power source and transfers the load to whichever source provides power within selectable limits. This transfer can be triggered by disturbance in the preferred source voltage, overcurrent in the source or manual or remote change of the preferred source. With both sources in limits and synchronised (phase error within the acceptable range), manual or remote transfer is performed in less than 200 µs. Transfers initiated by fault conditions in the preferred source depend on the status of the alternate source. For synchronised power sources with phase error within the limits, transfer to an alternate source is made within 6ms delay. Lack of synchronisation causes delay before transfer. It is possible to set the delay with dipswitches.

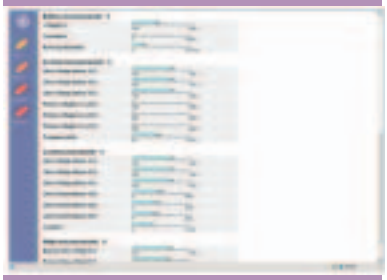
Technical specifications (general)

Nominal input voltage	400 Vac ph-ph / 230 Vac ph-N
Input voltage window	nominal -25% +20%
Nominal input frequency	50 Hz
Input frequency range	nominal -9% + 6%
Efficiency	> 99% at cos phi 0.8
Crest factor acceptance	3.5
Power factor (max. cos phi)	0.5 - 1.0 (leading/lgging)
Ambient operating temperature	0 to 40°C
Relative humidity	95% non-condensing
Altitude	1000 m (above 1000 m 5% derating per 500 m; max. 3000 m)
Cooling	redundant cooling fans
Audible noise	<55 dB(A)
EMC	EN 50022 level B, EN 60555-2-3
Protection	IP20 (floorstanding), IP 00 (rackmount models)

STS - Static Transfer Switch

		Voltage	Current	Dimensions (hxwxd, mm)	Ref. No.
1-phase, 1-pole					
stand alone					
	Static Transfer Switch STS-230-25-1P	230	25	340x507x440	*
	Static Transfer Switch STS-230-40-1P	230	40	340x507x440	*
	Static Transfer Switch STS-230-63-1P	230	63	340x507x440	*
	Static Transfer Switch STS-230-100-1P	230	100	1100x800x400	*
	Static Transfer Switch STS-230-150-1P	230	150	1100x800x400	*
	Static Transfer Switch STS-230-250-1P	230	250	1900x800x500	*
	Static Transfer Switch STS-230-400-1P	230	400	1900x800x500	*
1-phase, 1-pole					
19" rackmount					
	Static Transfer Switch STS-230-25-1P-RM	230	25	133.5x483x415	*
	Static Transfer Switch STS-230-40-1P-RM	230	40	133.5x483x415	*
	Static Transfer Switch STS-230-63-1P-RM	230	63	133.5x483x415	*
	Manual Bypass for STS-230-25-1P-RM	230	25	133.5x483x197	*
	Manual Bypass for STS-230-40/63-1P-RM	230	63	133.5x483x197	*
1-phase, 2-pole					
stand alone					
	Static Transfer Switch STS-230-25-2P	230	25	340x507x440	*
	Static Transfer Switch STS-230-40-2P	230	40	340x507x440	*
	Static Transfer Switch STS-230-63-2P	230	63	340x507x440	*
	Static Transfer Switch STS-230-100-2P	230	100	1100x800x400	*
	Static Transfer Switch STS-230-150-2P	230	150	1100x800x400	*
	Static Transfer Switch STS-230-250-2P	230	250	1900x800x500	*
	Static Transfer Switch STS-230-400-2P	230	400	1900x800x500	*
1-phase, 2-pole					
19" rackmount					
	Static Transfer Switch STS-230-25-2P-RM	230	25	133.5x483x415	*
	Static Transfer Switch STS-230-40-2P-RM	230	40	133.5x483x415	*
	Static Transfer Switch STS-230-63-2P-RM	230	63	133.5x483x415	*
	Manual Bypass for STS-230-25-2P-RM	230	25	133.5x483x197	*
	Manual Bypass for STS-230-40/63-2P-RM	230	63	133.5x483x197	*
3-phase, 3-pole					
floorstanding					
	Static Transfer Switch STS-400-25-3P	400	25	1100x800x400	*
	Static Transfer Switch STS-400-40-3P	400	40	1100x800x400	*
	Static Transfer Switch STS-400-63-3P	400	63	1100x800x400	*
	Static Transfer Switch STS-400-100-3P	400	100	1100x800x400	*
	Static Transfer Switch STS-400-150-3P	400	150	1900x800x500	*
	Static Transfer Switch STS-400-250-3P	400	250	1900x800x500	*
	Static Transfer Switch STS-400-400-3P	400	400	1900x1200x500	*
	Static Transfer Switch STS-400-630-3P	400	630	2100x1200x600	*
	Static Transfer Switch STS-400-800-3P	400	800	2300x1600x800	*
	Static Transfer Switch STS-400-1000-3P	400	1000	2300x1600x800	*
3-phase, 3-pole					
19" rackmount					
	Static Transfer Switch STS-400-25-3P-RM	400	25	710x483x465	*
	Static Transfer Switch STS-400-40-3P-RM	400	40	710x483x465	*
	Static Transfer Switch STS-400-63-3P-RM	400	63	710x483x465	*
	Static Transfer Switch STS-400-100-3P-RM	400	100	710x483x465	*
3-phase, 4-pole					
floorstanding					
	Static Transfer Switch STS-400-25-4P	400	25	1100x800x400	*
	Static Transfer Switch STS-400-40-4P	400	40	1100x800x400	*
	Static Transfer Switch STS-400-63-4P	400	63	1100x800x400	*
	Static Transfer Switch STS-400-100-4P	400	100	1900x800x500	*
	Static Transfer Switch STS-400-150-4P	400	150	1900x1200x500	*
	Static Transfer Switch STS-400-250-4P	400	250	1900x1200x500	*
	Static Transfer Switch STS-400-400-4P	400	400	2100x1200x600	*
	Static Transfer Switch STS-400-630-4P	400	630	2300x1200x600	*
	Static Transfer Switch STS-400-800-4P	400	800	2300x1600x800	*
	Static Transfer Switch STS-400-1000-4P	400	1000	2300x1600x800	*
3-phase, 4-pole					
19" rackmount					
	Static Transfer Switch STS-400-25-4P-RM	400	25	710x483x465	*
	Static Transfer Switch STS-400-40-4P-RM	400	40	710x483x465	*
	Static Transfer Switch STS-400-63-4P-RM	400	63	710x483x465	*
Options					
	MODBUS RS485 interface				*
	Seaworthy packing (also for air freights) 25-100A				*
	Seaworthy packing (also for air freights) 150-250A				*
	Seaworthy packing (also for air freights) 400-630A				*

* For ordering please contact customer service.



IRIS

Function

Turning the UPS in to a comprehesive power quality solution, thus providing increased system availability and process protection.

JUMP DataShield

JUMP Manager

Connectivity solutions

Applications

In today's business environment, a power failure causes loss of crucial data, expensive down time and damaged computers or industrial equipment. With the use of appropriate monitoring and management software, the UPS becomes a comprehensive power quality solution. The software is an indispensable and fully integrated element, increasing system availability and process protection.

Characteristics

During a power failure, the software takes a number of actions: users are alerted, processes are managed into defined statuses, open files and communication links are closed and unattended systems are shut down in a controlled way. When the mains power returns, the system is automatically started up and begins operating.

Protection software

The main function of the GE protection software is data and operating system protection. JUMP DataShield™ diminishes the risk of lost data or system crashes. The software provides events handling and computer shutdown for all major operating systems, protecting the security of precious data. Multi-vendor and multi-platform environments as well as client-server structures are managed, using SNMP-based network communication protocols.

Management software

The GE UPS management software provides direct access to remote UPS and active management of each UPS in multi-unit configurations to ensure efficient and predictable power quality. A network manager or facilities engineer can use JUMP Manager™ to monitor and control the local or remote UPS, and the equipment and processes it protects. Typically, an SNMP connection, direct serial link or modem connection is used for this purpose. The UPS can also be monitored on the Internet using the GE IRIS system.

Connectivity solutions

Code reference

table

Code	Related cable	UPS interface / functionality
cs	IMV-C or VIC-25	contact / power failure, battery low & shutdown
cp	contact shutdown adapter	contact / power failure, battery low & shutdown
i	IMV-I or VIC-23	intelligent / features depend on UPS type

Network

protection software

This free software (on CD-ROM) and an intelligent communication cable are shipped with each UPS (except SitePro/SG Series UPS)
Additional copies of this software can be ordered, all software is without cabling.

Medium	Operating system	Code	Ref. No.
CD-ROM	Microsoft Windows (all)	cp,i	**909227**
	Novell Netware	cs,i	
	IBM OS/2	cp,i	
	Linux	cp,i	
	AT&T Intel	cp,i	
	COMPAQ Tru64 Unix	cp,i	
	DEC UNIX AXP Alpha	cp,i	
	DEC Ultrix RISC	cp,i	
	DEC OpenVMS VAX/AXP	cp,i	
	HP-UX 700/800	cp,i	
	IBM AIX RISC/60x	cp,i	
	UNIXWARE INTEL	cp,i	
	SCO INTEL	cp,i	
	Siemens SINIX RM	cp,i	
	SUN OS SPARC	cp,i	
	All OS supporting JAVA 1.2 +	i	
	The CD-ROM contains UPS Protection and Management Program, incl. SNMP Agent and Client. *For detailed information on compatibility for the various versions please refer to detailed specifications.*		

Service

software

Windows all (Intel)	PowerFLAG SerVICe on CD-ROM	i	**912473**

JUMP

manager

Product	code	Ref. No.
Free to use with max. 2 single UPS or 2 complete parallel configurations, no limitation of managed power		
JUMP Manager on CD-ROM	i	**909227**
License for more than 2 UPS systems and max. 100 kVA managed power		**911162**
License for more than 2 UPS systems and max. 1000 kVA managed power		**911163**
License for more than 2 UPS systems and unlimited managed power		**911164**
SSL security internet communication module		**912316**

ARGUS

management software for SitePro UPS

Product	Ref. No.
Free to use with max. 1 single UPS. Compatible with Windows 9.x	
ARGUS Software Package 30 days full featured license	**911382**
License for 2 to 10 single UPSs	**911003**
License for more than 10 single UPSs	**915655**
License for more than 1 parallel UPS system	**911004**
License for unlimited number of single & parallel UPS system	**915656**
Intelligent Energy Management (IEM), only for parallel units (order also 911382)	**911005**

Connectivity solutions

Code reference table

Code	Related cable	UPS interface / functionality
cs	IMV-C or VIC-25	contact / power failure, battery low & shutdown
cp	contact shutdown adapter	contact / power failure, battery low & shutdown
i	IMV-I or VIC-23	intelligent / features depend on UPS type

IRIS software

Product	code	Ref. No.
Starter Kit (incl. 1st year fee and InterLinc box)		
IRIS starter kit, per system, incl. messaging and refresh		**911176**
After 1st year (excl. InterLinc box)		
IRIS yearly fee after 1st year, incl. messaging and refresh		**911167**

Accessories hardware interfaces

Contact UPS Relay-Box	c	**912466**
Contact UPS Splitter-Box 2-way	cs	**912467**
Contact UPS Splitter-Box 4-way	cs	**909226**
Contact UPS Alarm-Box	c	**912214**
Contact UPS Shutdown Adapter	cs	**912460**
UPS Service Box [1]	cs,i	**912468**
SNMP/Web Interface Card UTP for Match (19") [2], NetPro (19"), LP-11/31T/31	i	**909224**
Advanced SNMP/Web Interface card UTP/BNC for LP-33, SitePro Series 6 and SG Series	i	**911701**
SNMP/Web Interface Box Ethernet UTP/BNC [1] for Match (19"), NetPro (19"), LP-11/31(T); With Linc-box also valid for SitePro Series 5	cs,i	**909223**
Relay card for Match 700L-1500 [3] and Match 19" 1000-1500 [3]		**912459**
Relay card for Match (19") 2200-3000, NetPro (19") and LP-11/31(T)		**912458**
Multi Serial Board (8 x RS232) [1]		**901145**
Analogue modem for IRIS [1] (Only valid for European market)	i	**917641**
Converter RS232-RS485 kit [1] [4]	i	**911227**
USB2Serial adaptor pack	i	**901240**

(1) These products are delivered including cable(s).
(2) Not for Match 500-700 and Match 19" 700; alternative: SNMP Box, Art.no. 909223
(3) Not for Match 500-700 and Match 19" 700; alternative: Relay Box, Art.no. 912466
(4) Not needed if ESI is installed. Only if distance is more than 15m

Accessories hardware interfaces for SitePro

External Signal Interface (ESI)		**911249**
Linc Box: CP4 Protocol Converter*	i	**911483**
Modbus RTU Interface RS 232 * (Match-NetPro-LP-SitePro-SG Series)	i	**916276**
Modbus RTU Interface RS 485 * (Match-NetPro-LP-SitePro-SG Series)	i	**916275**

** These products are delivered including cable(s).*

Accessories cable kits adapters

ML Series Connectivity Cable (1.5m)	i	**914341**
AC Cable 10A IEC320 male / female, 1.5 m		**915170**
IMV-I Cable Intelligent UPS (2m) for LP and SitePro	i	**912469**
VIC-23 Cable Intelligent UPS (2m) for Match and NetPro	i	**909231**
IMV-C Cable Kit Contact UPS (2m)	cs	**912470**
VIC-32 Cable UPS to modem (2m) for Match and NetPro	i	**912471**
IMV-M Cable UPS to modem (2m) for LP and SitePro Series 6	i	**912472**
Adapter 9p male -> 25p female subd	c,cs,i	**909225**
IBM AS400 Cable Kit for built-in UPS driver (2m)	c	**909230**

Note: length of all cables is 2 meters

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GE Consumer & Industrial
Power Protection

Power Protection (formerly GE Power Controls), a division of GE Consumer & Industrial, is a first class European supplier of low-voltage products including wiring devices, residential and industrial electrical distribution components, automation products, enclosures and switchboards. Demand for the company's products comes from wholesalers, installers, panel-board builders, contractors, OEMs and utilities worldwide

www.gepowercontrols.com

GE POWER CONTROLS
International Sales
Nieuwevaart 51
B-9000 Gent - Belgium
Tel. +32/9 265 21 11
Fax +32/9 265 28 90
E-mail: gepcbel@gepc.ge.com

GE POWER CONTROLS
Hornhouse Lane
Knowsley Industrial Park
Liverpool L33 7YQ
United Kingdom
Tel. 0800/587 1251
Fax 0800/587 1239
E-mail: gepcuk@gepc.ge.com

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