

GS (20-300kVA) Three Phase In/



Product

QUALITY POWER SUPPLY EPI GS

is an On-Line double conversion (VFI) UPS with filtered and stabilized sinusoidal output voltage. GS series is immune to the interferences on the electric power supply line as it has special input and output filters.

MAXIMUM RELIABILITY AND POWER AVAILABILITY

The digital control of the appliance considerably improves reliability, since a reduction in electronic components lowers the likelihood of breakdowns. Digital control is provided by the microprocessor that, in the GS series, controls all the internal parameters, thus increasing reliability and performance. In parallel connections, digital control ensures balance of the currents, which generally change over time due to phenomena such as vibrations and temperature, between the UPS units and the exchange of information with no need for manual tuning. GS has been designed so that it can be connected in parallel even after the installation of the first unit. The power availability can be increased thanks to various configurations available such as the parallel configuration, the Dual Bus function and the Dynamic Dual Bus system. Online double conversion mode with an output power factor of 1.0 providing 15% more active power compares to UPS with a power factor of 0.8.

MAXIMUM BATTERY CARE

Optimal battery management includes :

- Periodic battery test,
- Protection against deep discharge,
- Recharge temperature compensated.

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If required, the unit can work in ECO mode to increase efficiency up to 98% and consequently reduce energy dissipation and costs. In this operating mode the mains is the priority source and the load is switched over to the Inverter only when the mains characteristics exceed the preset limits.

Features

- In-Built Galvanic Isolation Transformer
- High-efficient DSP chip
- Outstanding electric property
- Good looking and excellent hardware
- N+X parallel redundancy (compatible to battery share in the parallel mode)
- Frontal-board operation and maintenance
- Twin-channel line input
- Remote monitoring
- Intelligent management of battery charging and discharging
- Flexible battery arrangement

The UPS can contains the following hardware interfaces :

- RS232 serial port,
- SNMP • RJ45,
- GPRS
- Dry contacts,
- EPO (Emergency Power Off)

Model	GS 10-15-20KS	GS 30-40KS	GS 60-80KS	GS 100-120KS	GS 160-200KS	GS 250-300KS
Capacity	10/15/20kVA	30/40kVA	60/80kVA	100/120kVA	160/200kVA	250/300kVA
UPS (L*W*D) (mm)	402x660x880	412x813x1121	505x1060x1321	555x1060x1421	1043x1160x1748	1600x1182x1962
Pack (L*W*D) (mm)	505x800x1030	515x926x1270	603x1190x1486	653x1190x1586	1303x1180x2076	1760x1301x2168
UPS weight (kg)	153/168/194	223/256	382/434	535/580	1120/1320	1540/1745
Temperature	0°C~40°C					
Humidity	0~95% non-condensate					
Noise	<60dB @1.5m from surface of unit					
Altitude	1000m(height rises every 100m, power decreases 1%, maximum height is 4000m)					
Efficiency	Power saving mode>98%, Inverter>92%, AC-AC>91%					
Transfer time	0ms					
Technology	True double-conversion online technology conversion performed by IGBT					
Input						
Voltage	380/400/415 VAC (285 to 475 VAC)					
Frequency	50Hz ± 15%					
Conductors	Three Phases + N + E					
Output						
Voltage (selectable)	380/400/415 vac ± 1%					
Frequency	Pure sine wave generated by high frequency PWM inverter					
Harmonic Distortion	<2% Linear Load / <5% Nonlinear Load					
Crest Factor	3 : 1					
Power Factor	0.8 or 0.9					
Overload Recuperation	Automatic transfer to normal					
Voltage Regulation	Load balance : ± 1%					
Overload Capacity	125% for 12 minutes/ 150% for 1 minute					
Conductors	Three Phases + N + E					
Battery						
Type	Maintenance-free sealed lead-acid battery, 12V*32 batteries					
Full load autonomy	3 to 15 minutes, extended-range capacity					
Typical recharge time	4~8 hours, 90%					
Battery behavior	Auto-test, Transfer Point Adjustable battery and alarm setting					
Battery protection	Fuse protection, battery switch, temperature compensation, regular inspection software protection, overvoltage tripping.					
Rectification	Software protection, input switch, over current protection, temperature protection.					
Protection						
Hardware protections	Breaker for input, output, battery and bypass. Fast acting fuses in DC, fans, redundant power supplies, temperature sensors, on-o switch and audible alarms.					
Bypass	Static solid state, automatic and manual operation without interruption for maintenance. External Bypass (optional)					
Emergency switch	Remote and/or local EPO					
Supervisory control and communication						
Frontal panel	Interactive LCD display (Touchscreen)					
Alarms	Audible and visual alarm for abnormal conditions					
Communications	RS232, SNMP-RJ45, GPRS (RS232 & RJ45 standard, the other is optional)					