Power Generation Plant UPS

Intelligent, digitalized, and true galvanic isolation online design specially designed for Power Plants.

- Double conversion on-line system
- IGBT inverter design
- UPS controlled by Digital Signal Processor(DSP)
- True galvanic isolation
- Cold start function(DC power on)
- High resolution 320*240 dots graphs LCD display
- Smart RS-232 or RS-485 communication port
- Remote control panel(option)
- Sine wave pulse width modulation(SPWM)
- Pure sine wave output less than 3% THD
- UPS status display on LED flowchart
- 20KHz high frequency inverter
- Versatile modular design
- Generator compatible
- Multi-function LCD display
- IBM AS-400 interface communication port(option)
- Short circuit and overload protection
- Emergency power off function
- Multiple language LCD display
- On line output voltage selected
- Anti-harmonic filters included(option)
- Intelligent maintenance system

SPECIFICATION

Model Name	PGP-10K31	PGP-15K31	PGP-20K31	PGP-30K31	PGP-45K31	PGP-60K31	PGP-80K31	PGP-100K31	PGP-120K31
Capacity	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW	45KVA/36KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW
Power factor	0.8								
AC Input									
Phase	3 phase 3 wire / 3 phase 4 wire and ground								
Voltage range	380V/220V or 208V/120V +/- 15%								
Frequency range	Auto-sensing, 50Hz/60Hz +/-5 Hz								
Regulation style	3 phase 6 pulses or 6 phase 12 pulses (option)								
DC voltage	DC 220V								
Efficiency of rectifier	> 97%								
Efficiency of Inverter	> 88%								
Total Efficiency	> 85%								
Output									
Phase	Single phase								
Voltage range	220V or 230V or 240V								
Voltage regulation	+/- 1%								
Transient state	Return to 90% with 4 cycles								
Overload capacity	Bypass after 30 min while overload >100% <125%, after 30 sec while overload = 125% <150%, after 30 cycles while overload ≧ 150%								
Frequency	50Hz / 60Hz								
Frequency regulation	+/- 1 %								
Range of phase lock	+/- 5 Hz								
Range of lock released	> +/- 5 Hz								
Range of lock back	+/- 3 Hz								
Wave	Sine wave								
Load crest factor	3 : 1								
Total harmonic distortion	Less 3% for linear load								
Static Switch									
Transfer way	When inverter and utility are synchronized at same phase and voltage, bypass to inverter								
Transfer time	Bypass to inverter 0ms / Normal state, inverter to bypass 0ms								
Efficiency	>99%								
Environment									
Operating Temperature	0 ~ 40°C								
Storage Temperature	-20°C ~ 45°C								
Ambient operation	3,500 meters max. elevation, 0-95% humidity non-condensing								
Physical size W x D x H mm	1200 x 800 x 1800 (47.2" x 31.5" x 70.9")						1600 x 800 x 1800 (62.9" x 31.5" x 70.9")		
Weight Net weight kgs	None	None	687 (151.1 lb)	717 (157.7 lb)	None	None	1588 (349.4 lb)	None	None

Available Through: