GREENPOWER®

NEVER STOPS IN THE DARK

GX1 CRITICAL PROTECT RUNLINE UPS SYSTEM

1 - 10 kVA

1-phase UPS Performance & Reliability for any kind of critical applications

Part of the GREENPOWER ECO Line
ECO Line

Versatility, Reliability with Higher Power Density

True VFI voltage & frequency independent design offers wide range acceptability of upstream AC parameters resulting in 100% correction and availability of online double conversion mode without surrendering to batteries.

Meet 1kVA = 1kW

With advanced hardware and rich design features, GX1 offers a high output power factor of 1 that delivers almost all of its apparent power as real power, maximizing real output power. It's a double saving to the energy conscious user and maximizes real output power with incorporation of high-efficiency silicon carbide MOSFETs, and innovative design features, such as a multi-stage charging system, to deliver exceptional performance and efficiency.

Optimum Load & Upstream AC Compatibility

Gx1 features a completely new 3-level inverter which can power a broad range of load types. The use of new VIENNA type rectifier & advanced power factor correction system improves generator compatibility.

Intelligent Battery Management Technology Charger with Boost Charging

Gx1 features an Intelligent Battery Management Technology Charger with Boost Charging is an advanced battery three-stage charging solution (constant current, constant voltage, float charging) that effectively extends battery life, enhances performance, and promotes energy efficiency while ensuring safe and reliable charging.

HIGHLIGHTS

- TRUE ONLINE DOUBLE CONVERSION TECHNOLOGY
- MAXIMIZE REAL OUTPUT POWER WITH 1 POWER FACTOR
- FULL DIGITAL SIGNAL PROCESSING CONTROL TECHNOLOGY
- AC / DC EFFICIENCY UPTO 95.5%
- PARALLEL CONNECTION UPTO 3 UNITS
- GALVANIC ISOLATION TRANSFORMER CAN BE CONNECTED ON INPUT OR OUTPUT (OPTIONAL)

Commercial Facilities · Medical Systems · Banking Sector · Airport Applications · Security Systems · Data Centres

MODEL	GX1-1KS / (L)	GX1-2KS / (L)	GX1-3KS / (L)	GX1-5KS / (L)	GX1-6KS / (L)	GX1-8KS / (L)	GX1-10KS / (L)
INPUT							
Nominal Voltage	200*/208*/220/230/240Vac						
Voltage Range	110~300Vac						
Rectifier Frequency Range	40~70Hz						
Power Factor	≥0.99						
Number of Phase	1L + N + PE						
Harmonic Current Distortion	≤4% THD (linear load); ≤5% (non-linear load)						
OUTPUT							
Nominal Power (kVa)	1	2	3	5	6	8	10
Active Power (kW)	1	2	3	5	6	8	10
Nominal Voltage	200*/208*/220/230/240Vac						
Voltage Regulation	±<1% with Linear Load						
Sync Frequency Tracking	50/60Hz ± 0.1%						
Power Factor	Cosθ1						
Harmonic Current Distortion	≤2% THD (linear load); ≤5% THD (non-linear load)						
Transfer Time (AC to DC)	0 (Zero) ms						
Waveform	Pure sine wave						
Crest Factor	3:1						
Overload Capacity (Line Mode)	102%~110% load, 30min; 110%~130% load, 10min; 130%~150% load, 30s; 150% load, 200ms						
Overload Capacity (Battery Mode)	102%~110% load, 1min; 110%~130% load, 10s; 130%~150% load, 3s;>150% load, 200ms						
Protection	Low battery, overload, over temperature, short circuit, over voltage, battery over charge & over discharge						
EFFICIENCY							
Line Mode	92%	93%	94%	95%			
Battery Mode	86% / 89%	88% / 89%	91%	94.5%			
Eco Mode	96%	97%					
DYNAMIC ECO MODE							
Inverter to Bypass	<4 ms (Typical)						
Eco to Battery Mode	8 ms to 10 ms (Typical)						
Maintenance Bypass	Optional						
BATTERIES							
Type	Maintenance Free Non-Spillable VRLA AGM (default), GEL, NiCd (optional)						
Battery Voltage	24Vdc / 36Vdc	48Vdc / 72Vdc	72Vdc / 96Vdc	192Vdc / 204Vdc / 216Vdc / 228Vdc			
Battery Quantity (Pcs)	2 / 3	4 / 6	6 / 8	16 / 17 / 18 / 19 / 20			
Charging Current	1.5A for Standard backup model (S) / 1A - 8A for long backup model / upto 16A with Express Charger (as per demand)						
Charging Mode	Three Stage Charging						
Versatile Digital Charger	User settable Charging Voltage, Current & Batteries via LCD panel for RUNLINE series						
Battery Self Testing	Automatically alarm and estimate battery status and battery abnormal situation						
Temperature Voltage Compansation	Available						
COMMUNICATIONS, OPERATING CONDITIONS & STANDARDS							
Standard Communications	Rs232 / RS 485, A/B-type USB, Slot for communications interface						
Remote Signals/Remote Controls	EPO (NO/NC), Volt-free dry contacts (Optional) / MODBUS and SNMP (Optional)						
Parallel Capability	Upto 3 units, Feature available in 5k to 10k (optional)						
HMI & Indicators	Hi-Res Graphical LCD Display with buttons (Load Level , Battery Level, AC mode, Battery mode, Bypass mode and Fault indicator)						
ENVIRONMENT							
Ambient Temperature	0°C ~ +50° (Non-Condensing)						
Relative Humidity	<90%, non-condensing						
Noise Level	≤50 dBA						
Protection Level	IP20 (others upon request)						
Regulations	Safety: EN 62040-1 (directive 2006/95/EC); EMC: EN 62040-2 (directive 2004/108/EC)						
Classification according to IEC 62040-3	(Voltage Frequency Independent) VFI - SS - 111						
Approvals	CE, CB report (TUV)						
PHISICAL							
Colour	Black						
Dimensions (D*W*H)mm (Standard Model)	282*145*220 / 397*154*220	397*145*220	421*190*318	421*190*318			
Dimensions (D*W*H)mm (Long-run Model)	282*145*220		300*190*318				
Net Weight (Kg) (Standard Backup Model)	9.8 / 11.4	17 / 22.5	26.2	-			
Net Weight (Kg) (Long Backup Model)	4.1	5.8	7.4	15	17		

In the interest of continuous product development, specifications are subject to change without prior notification.

** Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.*

GREENPOWER®
Zero Emission Technology

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