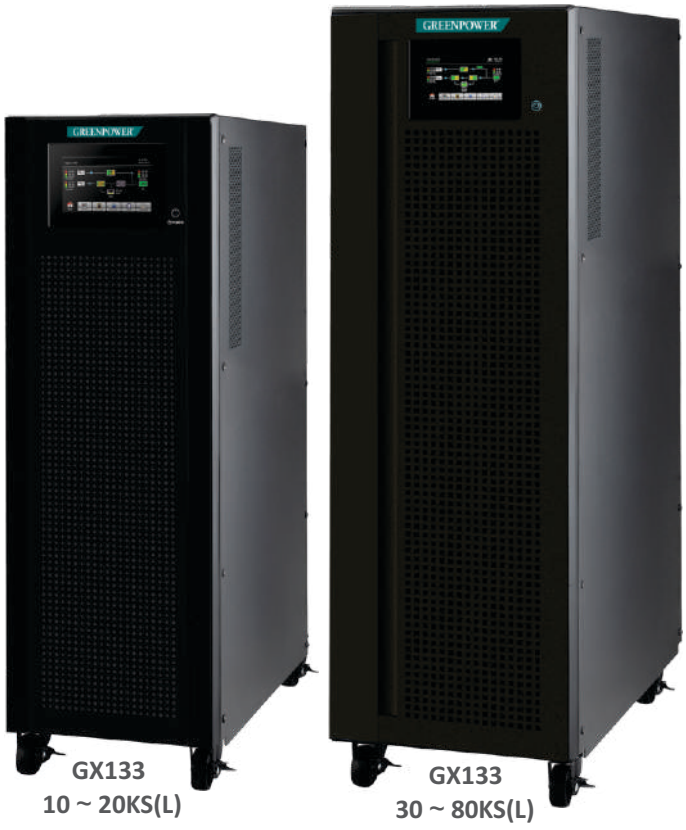
GREENPOWER®

NEVER STOPS IN THE DARK

GX-133 Series

ONLINE UPS

Three Phase
High Frequency



True online double-conversion:

True Online Double Conversion is a type of UPS (Uninterruptible Power Supply technology that provides the highest level of power protection for critical devices and systems. In this technology, the incoming AC power is first converted to DC power, and then reconverted to AC power with the use of an inverter. This ensure that the connected equipment always receives clean and stable power, free from any fluctuations or disturbances in the utility power supply. The double conversion feature means that the UPS is continuously converting the incoming power, even during normal operation, providing the highest level of protection and reducing therisk of downtime or data loss in the event of a power outage or disturbance.

DSP technology guarantees high performance:

A Digital Signal Processor (DSP) technology digitizes the data and mathematicallymanipulates them to provide an improved solution with higher performance.

Output power factor 1:

For critical applications, this 3-phase online UPS with output power factor 1.0ensures higher efficiency and advanced performance.

Active power factor correction in all phases:

Power factor correction is active in all phases and it can improve the efficiency of input.

50Hz/60Hz frequency converter mode:

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipment.

ECO mode operation for energy saving (ECO):

ECO mode improves the efficiency up to 98% to cut energy usage & cost. In thismode, loads are supplied by the mains directly. While mains failure, the UPS willconstantly supply the power to the connected device without any interruption.

Emergency power off function (EPO):

In case of any emergency and fire, the EPO control mechanism can instantly shutdown the system.

Optional isolation transformer:

Offers full isolation and complete common mode noise rejection can be connectedon input or output side.

Maintenance bypass available:

A mechanism that allows for maintenance or repair work to be carried out on theUPS without interrupting the power supply to connected devices.

Dual Input & Generator compatible:

This UPS is also available for optional dual inputs to support various inputs such as grid electric and generator science to have flexibility for system configuration.

Adapting the latest Silicon carbide diodes to enhance the system efficiency:

Through adapting the latest Silicon carbide diodes, no matter it's in AC mode and battery mode, the efficiency is higher than 96%.

Active power factor correction in all phases:

Power factor correction is active in all phases and it can improve the efficiency of input.

Adjustable charging current:

Users can adjust charging current via LCD setting based on applications.

Very powerful charger & Battery optimization:

This UPS has built-in powerful charger to support long runtime applications when connectingto big capacity of external battery cabinet. It has the 3-stage charging algorithium thatoptimized the battery performance.

Adjustable battery numbers for long-run model:

The number of connected batteries can be adjusted flexibly based on different power demands. This feature can allow UPS to keep running even when some battery packs are

Parallel operation with common battery:

The system can be operated in parallel upto 6 units, increasing the capacity and performance.Besides, this parallel UPS system can share common battery packs which might greatlyreduce the expense and reach the same performance.

5" colour touch type HMI LCD display:

Inbuilt 5" colour touch type LCD display for configurable settings with 500 event/data logs.

Power walk-in function:

This UPS is designed to have flexible power walk-in by way of adjusting the power walk-in time. This setting will optimize generator sizing and reduce the Impact to the AC source byhaving different walk-in time period for different paralleled UPS system when AC grid isrecovered.

HIGHLIGHTS

THREE PHASE IN & THREE PHASE OUT

DOUBLE CONVERSION ONLINE MODE TECHNOLOGY

MAXIMIZE REAL OUTPUT POWER WITH 0.1 POWER FACTOR

FULL DIGITAL SIGNAL PROCESSING INTEGRATED CIRCUIT TECHNOLOGY

AC / DC EFFICIENCY UPTO 96%

GALVANIC ISOLATION TRANSFORMER CAN BE CONNECTED

ON INPUT OR OUTPUT (OPTIONAL)

Commercial Facilities | Industrial Facilities | Medical Systems | Airport Applications | Security Systems | Data Centres

Technical Specification

GX133 10K~80K ONLINE UPS SELECTION GUIDE

MODEL	GX133-10K(S/L)*	GX133-15K(S/L)	GX133-20K(S/L)*	GX133-30K(S/L)*	GX133-40K(S/L)	GX133-60K(S/L)	GX133-80K(S/L)
PHASE	3-phase in/3-phase out						
CAPACITY	10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA / 30KW	40KVA / 40KW	60KVA / 60KW	80KVA / 80KW
PARALLEL CAPABILITY	4						
INPUT							
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)						
Voltage Range	-30% ~ +20%						
Frequency Range	40~70 Hz						
Power Factor	≧ 0.99 @ 100% load						
Harmonic Distortion (THDi)	< 3% at full linear load						
OUTPUT							
Output Voltage	3 x 360*/380/400/415 VAC (3Ph+N)						
AC Voltage Regulation (Batt. Mode)	± 1%						
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz						
Frequency Range (Batt. Mode)	50/60 Hz ± 1%						
Current Crest Ratio	3:1 (max.)						
Harmonic Distortion (THDv)	≦1% THD (Linear Load)			≦3% THD (Non-linear Load)			
Transfer Time: AC mode to Battery mode	zero						
Transfer Time: Inverter to Bypass	zero						
Waveform (Batt. Mode)	Pure Sine Wave						
Overload Capability	100-110% for 60 min, 111-125% for 10 min, 126%~150% for 1 min; >150% or 400ms						
BYPASS							
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)						
Voltage Range	-30% ~ +20% (Adjustable)						
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz						
Overload Capability	> 130% 1 minute (default) Continously working until breaker protection (optional)						
EFFICIENCY							
AC Mode	96%						
ECO Mode	99%						
Battery Mode	96%						
BATTERY							
Standard Model (S): Battery Capacity	12V/9Ah	12V/9Ah	12V/9Ah	12V/7Ah	12V/9Ah	N/A	
Standard Model (S): Numbers	(10+10)pcs	(16+16)pcs	(16+16)pcs	(16+16)pcs x 2 strings	(16+16)pcs x 2 strings		
Standard Model (S): Typical Recharge Time	9 hours recover to 90% capacity						
Standard Model (S): Charging Current (max.)	1A ~ 12A (Adjustable)				1A ~ 16A (Adjustable)		
Standard Model (S): Charging Voltage	+/-136.5 VDC ± 10%	+/-218 VDC ± 10%					
Long-run Model (L): Battery Type	Valve Regulated Lead Acid (VRLA) / Gel - Maintenance free battery						
Long-run Model (L): Numbers	+/- 10 pcs			+/-16 pcs ~ +/- 20 pcs (Adjustable)			
Long-run Model (L): Charging Current (max.)	1A ~ 12A (Adjustable)			1A ~ 16A (Adjustable)	2A ~ 24 A (Adjustable)	2A ~ 32A (Adjustable)	
Long-run Model (L): Charging Voltage	+/-136.5 VDC ± 10%	+/-13.65V*N (N=16~20)					
INDICATORS							
LCD Panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions						
ALARM							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
PHYSICAL							
Standard Model: Dimension, D X W X H (mm)		630 x 250 x 826		815 x 300 x 1000		N/A	
Standard Model: Net Weight (kgs)	124	139		225	250	N/A	
Long-run Model: Dimension, D X W X H (mm)		630 x 250 x 826		815 x 300 x 1000		790 x 360 x 1010	
Long-run Model: Net Weight (kgs)	28	43		60	67	108	113
ENVIRONMENT							
Operation Temperture	0-40°C						
Operation Humidity	<95% and non-condersing						
Altitude**	0 ~ 1500m at full load						
Noise Level	Less than 60dB @ 1 Meter			Less than 63dB @ 1 Meter		Less than 65dB @ 1 Meter	
MANAGEMENT							
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC						
Optional SNMP	Power management from SNMP manager and web browser						

*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.
**If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be derated 1% per 100m.

- S - stands for Standard Backup Model
- L - stands for Long Backup Model

► Product specifications are subject to change without further notice.

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DANGER
Risk of High Voltage

CAUTION
Risk of Electric Shock

COMPULSORY
Wiring must be carried by expert electrician only

GREENPOWER®
Zero Emission Technology

GX-133 Ver.1.0 April, 2024