

# Garun 60KL

PN: UP33TOP160KGAAZ01B  
EAN: 6422956009434

## Specifications

<b>Capacity</b>	60k VA / 60k W
<b>Type</b>	On-line
<b>Input</b>	
Nominal Voltage	3 x 400 VAC (3Ph+N)
Voltage range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load
Frequency Range	46 ~ 54Hz
Phase	3-phase in / 3-phase out
Power Factor	≥ 0.99 at 100% load
Outlet type	Terminal Block Wiring
<b>Output</b>	
Nominal Voltage	3 x 360*/380/400/415 VAC (3Ph+N)
AC Voltage Regulation (Batt. Mode)	± 1%
Frequency Range (Synchronized Range)	46 ~ 54Hz
Frequency Range (Batt. Mode)	50Hz ± 0.1 Hz
Current Crest Ratio	3:1 (max.)
Harmonic Distortion	2 % THD (Linear Load) 5 % THD (Non-linear Load)
Waveform (Batt. Mode)	Pure Sine-wave
Outlet type	Terminal Block Wiring
<b>Transfer Time</b>	
AC Mode to Batt. Mode	Zero
Inverter to Bypass	Zero
<b>Overload</b>	
AC Mode	100-110% for 60 min 110-125% for 10 min 125%~150% for 1 min >150% immediately
Battery Mode	100-110% for 60 min 110-125% for 10 min 125%~150% for 1 min >150% immediately



True double conversion



Pure Sine Wave



ECO Mode for energy saving

- On-line with double conversion
- 3-stage extendable charging design for optimized battery performance
- Output power factor 1.0
- Optional isolation transformer
- DSP technology guarantees high performance
- Active power factor correction in all phases
- High efficiency up to 98.5%
- EPO function
- Maintenance bypass
- LCD display
- Software management
- ECO mode operation for energy saving
- Generator compatible

\*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.

### Efficiency

AC Mode	≥ 95.5 % at battery fully charged
Battery Mode	≥ 94.5 % at full charged battery
ECO Mode	≥ 98.5 % at full charged battery

### Indicators type

LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions
Alarm	Battery mode, Low battery, Overload, Fault

### Environment

Humidity	< 95 % RH at 0-40°C (non-condensing)
Noise level	Less than 70dB at 1 m

### Battery

Battery type & number for external cabinet	12V lead acid, (16+16) pcs x 2 strings
Charging Voltage	+/- 13.65V*N (N = 16~20)
Charging Current (max)	2A-24A (adjustable)




### Management

Connection ports	RS232 / USB / EPO SNMP optional
Software (online download)	<a href="https://www.power-software-download.com/viewpower.html">https://www.power-software-download.com/viewpower.html</a>
Software capability	Monitor & Control over USB, LAN and Internet (SNMP card optional)
OS Support	Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux, MAC OS

### Physical

Product dimensions	790 x 360 x 1010 mm
Product Net Weight	108 kg

## Logistics

 Carton Box Size (LxWxH)	TBD
 Pieces in the Carton Box	TBD
 Net & Gross weight / CTN	TBD

## Certificates

