

Garun 10KL

PN: UP33TOP110KGAAZ02B
EAN: 6422956011871

Specifications

Capacity	10k VA / 10k W
Type	On-line
Phase (IN : OUT)	3:3 / 3:1 / 1:1
Input	
Nominal Voltage	
3:3 or 3:1	3 x 400 VAC (3Ph+N)
1:1	1 x 230 VAC (Ph+N)
Voltage range	
3:3	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load
3:1 or 1:1	110-300 VAC (1-phase) @ 50% load 176-276 VAC (1-phase) @ 100% load
Frequency Range	46 ~ 54Hz
Power Factor	≥ 0.99 at 100% load
Outlet type	Terminal Block Wiring
Output	
Nominal Voltage	3 x 360*/380/400/415 VAC (3Ph+N) 1 x 208*/220/230/240 VAC (Ph-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
Transfer Time	
AC Mode to Batt. Mode	Zero
Inverter to Bypass	Zero

*When output voltage is set as 3 x 360VAC or 1 x 208 VAC, the output power of the unit will be derated to 90%.

**Isolation transformer will occupy the internal batteries' space.



3:3 / 3:1 / 1:1
phase



True double
conversion



Parallel operation
up to 3 units

- On-line with double conversion
- Smart battery charger to optimize batteries' performance
- Adjustable batteries design
- Output power factor 1.0
- Optional isolation transformer**
- DSP technology guarantees high performance
- Active power factor correction in all phases
- High Efficiency on AC mode up to 95.5%
- EPO function
- Maintenance bypass
- 5" large touch LCD display
- Power management over SNMP / Modbus / AS 400 card
- ECO mode operation for energy saving
- Dual Input for generators compatibility

Overload

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

Efficiency

AC Mode ≥ 95.5 % with fully charged batteries

Battery Mode ≥ 94.5 % with fully charged batteries

ECO Mode ≥ 98.5 % with fully charged batteries

Battery

Internal batteries (optional) 20 pieces of 12V lead acid
 7Ah or 9Ah

External batteries 12V lead acid,
 (10+10) pcs x 1 string

Charging Voltage +/- 13.65V*10

Charging Current 1A-12A (adjustable)

Environment

Humidity < 95 % RH at 0-40°C
 (non-condensing)

Noise level Less than 60dB at 1 m

Heat dissipation up to 2006 BTU/h (line mode)
 up to 2163 BTU/h (battery mode)



Management

Communication ports RS232 / USB / EPO / SNMP /
 Modbus / AS400 (cards optional)

Software compatibility ViewPower Network Edition and
 VMWare Shutdown Wizard

Physical

Product dimensions 630 x 250 x 750 mm

Product Net Weight 44.5 kg

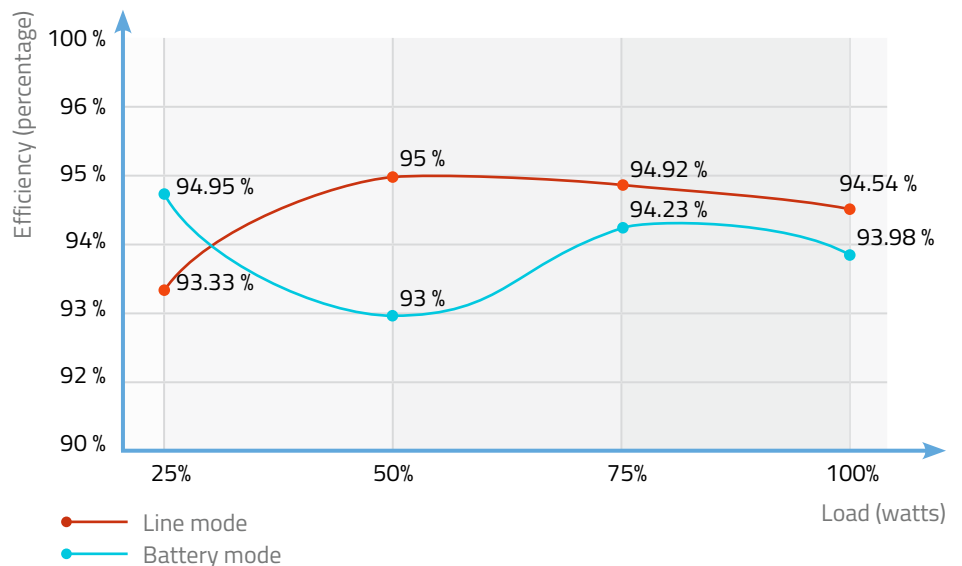
Efficiency

Line mode

Load	Efficiency
100 %	94.54 %
75 %	94.92 %
50 %	95 %
25 %	93.33 %

Battery mode

Load	Efficiency
100 %	93.98 %
75 %	94.23 %
50 %	93 %
25 %	94.95 %



Logistics

Carton Box Size (LxWxH)	775 x 370 x 900 mm
Pieces in the Carton Box	1
Gross weight / CTN	62 kg

Certificates

