Garun 40KL

PN: UP33TOP140KGAAZ01B
EAN: 6422956009427



Specifications

Capacity	40k VA / 40k W
Type	On-line
Input	
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 Phases IN / 3 Phases OUT
Power Factor	≥ 0.99 at 100% load
Outlet type	Terminal Block Wiring
Output	
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
Transfer Time	
AC Mode to Batt. Mode	Zero
Inverter to Bypass	Zero
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

3 Phases IN / 3 Phases OUT

True double conversion

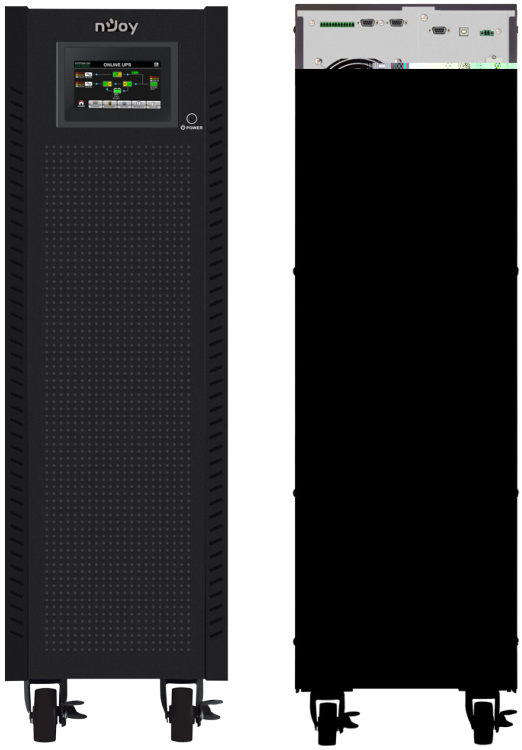
Parralel operation up to 3 units

- 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
- 4.3" large touch LCD display
- Power management over SNMP / Modbus / AS 400 card
- ECO mode operation for energy saving
- Dual Input for generators compatibility

*When output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.
**Isolation transformer will occupy the internal batteries' space.

942.44.23.0

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)	32~80 pieces of 12V lead acid 7Ah or 9Ah
External batteries	12V lead acid, (N + N) pcs x 1~2 strings; N=16~20
Charging Voltage	+/-13.65V*N; N=16~20
Charging Current (max)	1A-12A (adjustable)
Environment	
Humidity	< 95 % RH at 0-40°C (non-condensing)
Noise level	Less than 70dB at 1 m
Heat dissipation	up to 6844 BTU/h (line mode) up to 9181 BTU/h (battery mode)
Management	
Communication ports	RS232 / USB / EPO / Intelligent Port for installation of SNMP or Modbus (Protocol 38) Card
Software compatibility	ViewPower Network Edition and VMWare Shutdown Wizard



Physical	
Product dimensions	815 x 300 x 1000 mm
Product Net Weight	96 kg (without batteries)

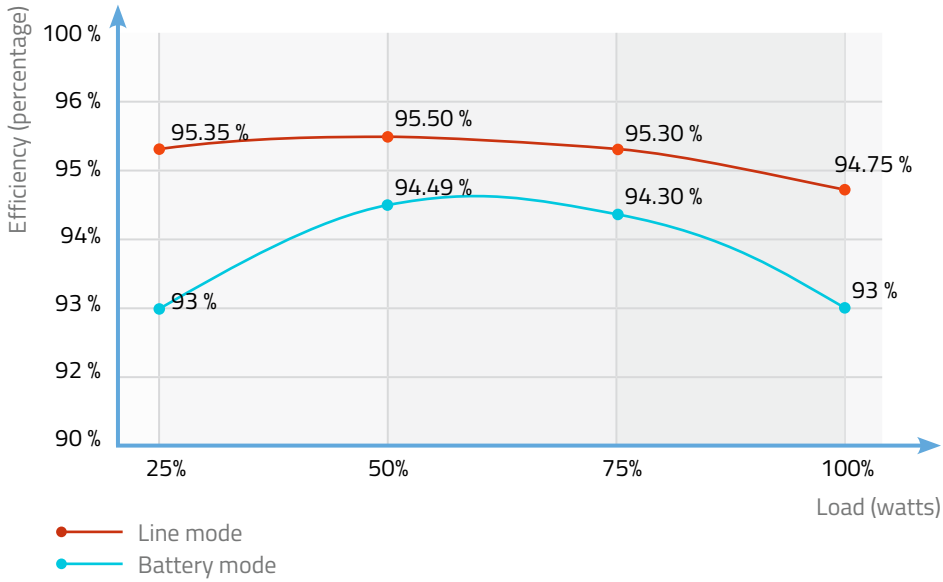
Efficiency

Line mode

Load	Efficiency
100 %	94.75 %
75 %	95.30 %
50 %	95.50 %
25 %	95.35 %

Battery mode

Load	Efficiency
100 %	93.00 %
75 %	94.30 %
50 %	94.49 %
25 %	93.00 %



Logistics

Carton Box Size (LxWxH)	900 x 420 x 1080 mm
Pieces in the Carton Box	1
Net & Gross weight / CTN	N.W.: 96 kg / G.W.: 112 kg

Certificates

RoHS 2011/65/EU CE