



TECHNICAL SPECIFICATION

MODEL & CAPACITY	GIARPEE OL60LB
Capacity	6 KVA / 6 KW
Technology	True Online Double Conversion
Inverter Type	IGBT
INPUT	
Input wiring	Single-phase three-wire (1 Φ + N + PE)
Rated voltage	208 / 220 / 230 / 240 VAC
Voltage range	110 ~ 176 VAC (linear derating between 50% and 100% load);
	176 ~ 288 VAC (no derating)
Rated frequency	50 / 60 Hz (auto-sensing)
Frequency range	40 ~ 70 Hz
Power factor	≥ 0.99
Bypass voltage range	- 40% ~ +15% (settable)
Total harmonic distortion (THDi)	≤ 5%
OUTPUT	
Output wiring	Single-phase three-wire (1 Φ + N + PE)
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 VAC
Voltage regulation	± 1%
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode
Waveform	Sinusoidal
Power factor	0.8 / 0.9 / 1.0 (Optional)
Total harmonic distortion (THDv)	≤ 1% (linear load);
	≤ 4% (non-linear load)
Crest factor	03:01
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s
BATTERIES	
DC voltage	192 Vdc (192 ~ 240 Vdc settable)
Number of battery	16 pcs (16 ~ 20 settable)
Inbuilt battery (standard model)	12 V / 7 Ah × 16
Charging current	Standard model: 1 A;
	Long time model: 5 A (default), 1 ~ 5 A settable; 12 A (optional)
Recharge time	Standard model: 90% capacity restored in 8 hours;
	Long time model: depend on the capacity of battery
SYSTEM	
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode
Transfer time	0 ms



Protections	Short-circuit, overload, over temperature, battery low voltage, overvoltage, under voltage and fan failure
Max. number of parallel connections	4 (Optional)
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)
Display	AC O/P Voltage, O/P current, I/P Voltage, I/P Current, Battery Voltage, Battery Current, Frequency, Output load and Battery Level
OTHERS	
Operating temperature	0°C ~ 45°C
Storage temperature	-25°C ~ 55°C (without battery)
Isolation Transformer	Internal / External
DG Compatibility	Generator Compatible
Relative humidity	0 ~ 95% (non-condensing)
Altitude	≤ 1000 m, derating 1% for each additional 100 m
IP rating	IP 20
Noise level at 1 m	≤ 55 dB
Dimensions (W × D × H) (mm)	191 × 465 × 711 (S), 191 × 465 × 350 (H)
Packaged dimensions (W × D × H) (mm)	310 × 654 × 941 (S), 318 × 595 × 475 (H)
Net weight (kg)	53 (S), 14.5 (H)
Gross weight (kg)	61 (S), 16 (H)

S means standard model; H means long time model.

All specifications are subject to change without notice