

TECHNICAL DATASHEET

MODEL	GIARPEE OL10LB
Capacity	1 KVA / 900 W
Technology	True Online Double Conversion
Inverter Type	IGBT
INPUT	
Rated voltage	208 / 220 / 230 / 240 VAC
Voltage range	110 ~ 176 VAC (linear derating between 50% and 100% load);
	176 ~ 280 VAC (no derating); 280 ~ 300 VAC (derating 50%)
Frequency	40 ~ 70 Hz (auto-sensing)
Power factor	≥ 0.99
Bypass voltage range	-25% ~ +15% (settable)
Total harmonic distortion (THDi)	≤ 6%
OUTPUT	
Voltage	208 / 220 / 230 / 240 VAC (settable via LCD)
Voltage regulation	± 1%
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)
Waveform	Sinusoidal
Power factor	0.8 / 0.9 / 1.0 (Optional)
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)
Crest factor	03:01
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms
BATTERIES	
DC voltage	36 V
Charging current (max.)	6 Amps
Recharge time	Standard model: 90% capacity restored in 3 hours;
	Long time model: depend on the capacity of battery
SYSTEM	
Efficiency	≥ 90% (Mains mode)
	≥ 85% (Battery mode)
	≥ 95% (ECO mode)
Transfer time	Mains mode to battery mode: 0 ms
	Inverter mode to bypass mode: 4 ms (typical)
Protections	Output under Voltage, Over Voltage, Short-circuit, overload, over temperature, battery discharge protection and fan testing protection
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (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
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3
OTHERS	
Operating temperature	0°C ~ 45°C
Storage temperature	-25°C ~ 55°C (without batteries)



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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 1m	≤ 50 dB
Dimensions (W × D × H) (mm)	144 × 336 × 214
Packaged dimensions (W × D × H) (mm)	232 × 417 × 318
Net weight (kg)	6
Gross weight (kg)	7
* Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 VAC	
* S means standard model, H means long time model	
* All specifications subject to change without notice	
* Custom-made specifications are acceptable	