

SPECIFICATIONS

Table 7. Line Mode Specifications

Model	1.5KVA OGM	2.5KVA OGM	3.5KVA OGM	6KVA OGM	10KVA OGM
Rated power	1KW	2KW	3KW	5KW	8KW
Input Voltage Waveform	Sine wave(Utility or Generator)				
Nominal Input Voltage	220Vac				
Low Line Disconnect	176Vac±4%(NOR)				
	130Vac±4%(WID)				
Low Line Re-connect	185Vac±4%(NOR)				
	138Vac±4%(WID)				
	<p>Note: 1.NOR setting can be used for general electrical appliance</p> <p>2. WID setting can be used only for some special load, Such as lamp, fan.</p>				

High Line Disconnect	251Vac±4%(NOR)
	251Vac±4%(WID)
High Line Re-connect	242Vac±4%(NOR)
	242Vac±4%(WID)
Max AC Input Voltage	258VAC
Nominal Input Frequency	50Hz / 60Hz (Auto detection)
Low Line Frequency Disconnect	40+0.3Hz for 50Hz, 50+0.3Hz for 60Hz
Low Line Frequency Re-connect	41+0.3Hz for 50Hz, 51+0.3Hz for 60Hz
High Line Frequency Disconnect	55+0.3Hz for 50Hz, 65+0.3Hz for 60Hz
High Line Frequency Re-connect	54+0.3Hz for 50Hz, 64+0.3Hz for 60Hz
Output Voltage Waveform	As same as Input Waveform
Output Short Circuit Protection	Air switch
Efficiency (Line Mode)	>97%
Transfer Time	15ms (typical) 20ms max(WID)
Bypass charger enable in off mode	Yes

Note: NOR – Normal range; WID-Wide range

Table 8. Invert Mode Specifications

Model	1.5KVA OGM	2.5KVA OGM	3.5KVA OGM	6KVA OGM	10KVA OGM
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Output Voltage Waveform	Pure Sine Wave		
Rated Output Power	1 ~ 8KW(220VAC)		
Power Factor	0.9 - 1.0		
Nominal Output voltage	220Vac		
Minimum Peak Output Voltage at Rated Power	>191V		
Output Frequency (Hz)	50Hz / 60Hz \pm 0.3Hz		
Output Voltage Regulation	\pm 10%		
Nominal Efficiency	>87% (@Normal DC Input; >60% R load)		
Over-Load Protection	105% <load<150%, beeps 0.5s every 1s, and Fault after 60s. Load>150%, beeps 0.5s every 1s, and Fault after 20s.		
Capable of starting electric motor	YES		
Output Short Circuit Protection	Current limit (Fault after 10s), Air switch		
Power saver	Load \square 25 \pm 5W (Enabled on "P/S auto" setting of Remote control)		
DC voltage			
Nominal DC Input Voltage	12VDC	24VDC	48VDC
Min DC start voltage	10.5Vdc	21Vdc	42Vdc
Low DC Alarm	10.5Vdc \pm 0.2Vdc	21Vdc \pm 0.4Vdc	42.0 \pm 0.8Vdc
Low DC Shut-down	10.5Vdc \pm 0.2Vdc	20Vdc \pm 0.4Vdc	40.0 \pm 0.8Vdc
High DC Shut-down	16.0Vdc \pm	32Vdc \pm 0.4Vdc	64.0 \pm 0.8Vdc

	0.2Vdc		
High DC Shut-down Recovery	15.5Vdc ± 0.2Vdc	31Vdc ± 0.4Vdc	62.0 ± 0.8Vdc

Table 9. AC Charger Mode specification:

Nominal Input Voltage	220Vac
Input Voltage Range	185V -242Vac(NOR) 153V -242Vac(WID)
High Voltage Disconnect	242Vac±4%(NOR) 242Vac±4%(WID)
High Line Re-connect	237Vac±4%(NOR) 237Vac±4%(WID)
Low Voltage Disconnect	185Vac±4%(NOR) 153Vac±4%(WID)
Low Line Re-connect	191Vac±4%(NOR) 157Vac±4%(WID)
Nominal Output Voltage	According to the battery type
	12VDC model: Max 20A
	24VDC model: Max 20A
	48VDC model: Max 20A

Nominal Charge Current	96VDC model: Max 20A
Charge current tolerance	±1A
Charge Algorithm	Three stage: Boost CC (constant current stage) Boost CV (constant voltage stage) Float (constant voltage stage)

Note: NOR – Normal range;
WID-Widerange

Rated Battery voltage	12VDC	24VDC	48VDC	96VDC
Rated charge current	30A	50A	60A	60A
Input voltage range	18-150Vdc	34-150Vdc	65-150Vdc	144-180Vdc
Max. PV open circuit array voltage	170Vdc	170Vdc	170Vdc	234Vdc
Max. recommended input power (W)	360W	1200W	2880W	4800W

Table 10. Solar Charger Mode Specifications

Table 11. General Specifications

MODEL	1.5KVA OGM	2.5KVA OGM	3.5KVA OGM	6KVA OGM	10KVA OGM
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Indicators	LED+LCD Display				
Protections	Low battery, over charging, over load , over temp.				
Remote control	YES				
Operating Temperature Range	0°C ~ 40°C				
Storage temperature	-15°C ~ 60°C				
Operation humidity	5% ~ 95% (non-condensing)				
Earthing(ABYC standard)	Follow customer requirement: Inverter mode: the neutral and the earth joined ; Line mode: the neutral and the earth separated. Use a Relay to realize the function.				
Audible Noise	65dB max				
Cooling	Forced air, variable speed fan				
Size (L*W*H mm)	370*310*150	485*350*170			
MODEL	1.5KVA OGM	2.5KVA OGM	3.5KVA OGM	6KVA OGM	10KVA OGM
Net weight (Kg)					

Product specifications are subject to change without further notice

APPENDIX A

How to Select and Configure PV Panels