

OFF GRID SOLAR CONTROLLER

SOLAR CHARGER
OUTPUT VOLTAGE
OUTPUT POWER

ALBAT SOLAR MPPT IRC/G

MPPT
230 Vac, 50Hz
1200 W to 4000 W

SOLAR CONTROLLER AS MPPT IRC/G is a versatile high frequency Pure Sine Wave inverter-charger designed for both off-grid or with grid (as backup) application.



APPLICATIONS:

- Off grid systems
- On grid – backup system

MAIN FEATURES:

- Multi-functional Controller, Inverter, Rectifier, Genset starter (optional)
- High frequency pure sine wave design
- Programmable menus
- Wide AC input range
- LCD display + LED indicators
- Support main battery types (lead acid, LiFePO4)
- Free monitoring software
- USB communication interface
- Local / Remote control

ELECTRICAL SPECIFICATIONS:

- Output power: 1200 W / 2400 W / 4000 W*
- Output voltage: 230 Vac
- Output frequency: 50 Hz
- Nominal DC voltage: 12 Vdc / 24 Vdc / 48 Vdc*
- Solar charger: MPPT
- Battery charger

ENVIRONMENTAL / MECHANICAL SPECIFICATIONS:

- Operating temperature: 0 °C to +55 °C
- Operating humidity: 20 to 90 % RH – non-condensing

ALBAT provide completely Design by your technical request, Production, Assembly and Service in warranty and after-warranty period.

The production process is in accordance with the standards ISO 9001:2008 and ISO 14001:2004. All products are in compliance with IEC and EN standards.

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Technical specification

Model	1212	2424	2424X	4048*
ELECTRICAL SPECIFICATIONS				
Continuous output power W	1200	2400		4000
Surge rating	5 seconds max			
Input voltage range Vac	90 to 280 (Appliance mode); 170 to 280 (UPS mode)			
Input max voltage Vac	300			
Input / Output frequency Hz	50 / 60			
Output voltage Vac	230 ±5%			
Output wave form	Pure sine wave			
Output regulation %	<3 RMS for battery voltage range			
Output short circuit	Circuit breaker			
Peak efficiency %	93			
Nominal DC voltage Vdc	12	24	48	
Transfer time msec	<10 (UPS mode); <20 (appliance mode)			
Charging mode	3-stage			
Max DC input Vdc	15	30	60	
Boost voltage Vdc (flooded / AGM)	14,6 / 14,1	29,2 / 28,2	58,4 / 56,4	
Float voltage Vdc	13,5	27,0	54,0	
Charging current A	60	20	60	
No load consumption W	<20	<25	<50	
Power saving consumption w	<10	<10	<15	
SOLAR CHARGER				
Type	MPPT			
Max charging current a	40	25	60	80
System DC Voltage Vdc	12	24	24	48
Max PV input Voc V	100	75	145	145
ENVIRONMENTAL				
Certification	CE			
Operating temperature °C	0 to 55			
Operating humidity %	20-90 RH non-condensing			
MECHANICAL				
Dimension mm	355x272x100	355x272x100	479x295x100	468x295x120
Weight kg	7,0	7,5	11,8	11,5

* Parallel function; Three phase system;