

OFF GRID SOLAR CONTROLLER

ALBAT SOLAR PWM IRC/G

SOLAR CHARGER
OUTPUT VOLTAGE
OUTPUT POWER

PWM
230 Vac, 50Hz
1200 W to 4000 W

SOLAR CONTROLLER AS PWM 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: PWM
- 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.

OFF GRID SOLAR CONTROLLER

ALBAT SOLAR PWM IRC/G

Technical specification

Model	1212	1224	2424	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 refulation %	<3 RMS for battery voltage range			
Output short circuit	Circuit breaker			
Peak efficiency %	>95 (line mode) / 91 (inverter mode)			
Nominal DC voltage Vdc	12	24	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	29,2 / 28,2	58,4 / 56,4
Float voltage Vdc	13,5	27	27,0	54,0
Charging current A	60		20	60
No load consumption W	<20		<20	<50
Power saving consumption w	<10		<10	<15
SOLAR CHARGER				
Type, max charging current A	PWM; max 50			
System DC Voltage Vdc	12	24	24	48
Max PV input Voc V	40	75	60	90
Standby power W	1	2	2	2
ENVIRONMENTAL				
Certification	CE			
Operating temperature °C	0 to 55			
Operating humidity %	20-90 RH non-condensing			
MECHANICAL				
Dimension mm	355x272x100		355x272x100	468x295x120
Weight kg	6,8		7,0	10