

GREEN



Zcomax Solar Series Off-Grid Photovoltaic Charger

Off-grid photovoltaic chargers in the higher power range require higher temperature ranges and better protection due to their worldwide use in so many varied applications. The Zcomax ZB series of photovoltaic chargers fit that bill and then some.

- 12/24/36/48V provide nearly universal application for most all PV modules
- 3-stage automatic charge modes: 100~300% charge time reduction
- MPP tracking for 15-30% greater energy yield
- Complete and easy integration with the SA series simplifies installation

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Off-Grid Photovoltaic Charger

SPECIFICATION

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Model	ZB-1000W	ZB-1500W
Item		
Input		
Rated Voltage	40V~120V	
MPPT Range / Operating Voltage	40~120V @ 12Vbat 40~120V @ 24Vbat 40~120V @ 36Vbat 40~120V @ 48Vbat	
Current Max	25A	35A
Max. PV Array Open Circuit Voltage	150Vdc	
Output		
Nominal Battery Voltage	12/24/36/48Vdc	
Max. Charger / Output Current	40A	60A
Max. PV Array Power	1000W	1500W
Ripple Voltage	<±1V	
Max. Efficiency	95%	
Charge Mode	Bulk/Pulse/Float1/Float2 or Bulk/Float1/Float2	
Display		
Status on LCD	Solar Cell Input Voltage / Solar Cell Input Current / Solar Cell Input Power / Battery Voltage / Battery Current / Battery Ampere-hours / IGBT Temperature / Battery Temperature / Voltage Setting Table, etc.	
Status on LED	Normal / Fault / PV Low	
Physical Characteristics		
Mechanical Dimensions WxHxDmm	165x330x85mm	
Input / Output Connectors	Hardwire (Terminal Block)	
Enclosure Type	IP20	
Net Weight (kgs)	3.2	

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Protection		
Overload	>110% shutdown and retry 5 times after 15 seconds	>105% shutdown and retry 5 times after 15 seconds
Short Circuit at Load Side	Output Current >60A = Shutdown	
Solar Cell Polarity Error Protection	Yes	
Battery Temperature Compensation (Optional)	(-3.3mV/cell)	
Standby Power Consumption	0w	
Total Power Consumption While Operating	3.5w	
Alarms		
Visible	Fault / PV Low / Battery Abnormal, etc.	
Environmental		
Operating Temperature	-20 to +60	
Storage Temperature	-40 to +85	
Altitude	0~2000M up to 60°C; 0~3000M up to 55°C	
Humidity	100% RH Maximum, Non-Condensing	
Computer Interface		
Type	Standard RS232	
Compliance		
Quality	ISO9001	
Standard EMC	EN61000-6-1 / EN61000-6-3	
Marking	CE	
Patent Pending		
Part No.	Taiwan: 97147246	
	China: 200810180491.7	
	USA: 12/273,669	