



## EnerSolis Series Off-Grid Photovoltaic Charger

Buck-1000W/Buck-1500W

The Buck-1000/1500 developed by Ablerex can be used universally for 12, 24, 36 and 48 V. Its broad DC input voltage range makes sensible system configuration possible for almost all PV modules. Thanks to the integrated MPP tracking, the charger guarantees an energy yield that is 15 – 30 % higher than that of conventional shunt and serial charge controllers. Auto-selection three-stage (Bulk/Pulse/Float) charge mode to reduce 1~3 times charge time and maximize system performance. What is unique about charge controllers of this power range is the high protection class, and the broad temperature range that makes worldwide use even in harsh ambient conditions possible. The easy installation and completely automatic customization of the controller settings by the SA series make its commissioning very easy.

EnerSolis Series  
Off-Grid Photovoltaic Charger

Model	Buck-1000W		Buck-1500W
Input			
Rated Voltage	40V~120V		
MPPT Range / Operating Voltage	40~120V @ 12Vbat 40~120V @ 24Vbat 50~120V @ 36Vbat 60~120V @ 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 /Bat. Voltage /Bat. Current /Bat. Ampere-hours/ IGBT temperature /Bat. temperature/Votlage setting table, etc.		
Status on LED	Normal/Fault/PV Low		
PROTECTION			
Overload	>110% shutdown and retry 5 times after 15sec.	>105% shutdown and retry 5 times after 15sec.	
Short Circuit at load side	Output current>60A shutdown		
Solar Cell Polarity Error Protection	Yes		
Battery Tempeature Compensation(Optional)	(-3.3mV/ /cell)		
Standby Power Consumption	0W		
Total Power Consumption while operating	3.5W		
ALARMS			
Visible	Fault, PV Low, Bat. Abnormal, etc.		
PHYSICALS CHARACTERISTICS			
Mechanical Dimensions WxHxDmm	165x330x85mm		
Input/Output Connectors	Hardwire(Terminal Block)		
Enclosure Type	IP20		
Net Weight(Kgs)	3.2		
ENVIRONMENT			
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, No Condensing		
INTERFACE COMPUTER			
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		

