



EnerSolis Series

Grid-Connected Single Phase

The EnerSolis series grid-connected Photovoltaic Inverter are delivered in a waterproof IP65 enclosure which can be installed in either a grid connected solar tracker system or a stationary PV system. By taking care of an accurate power conversion from solar panel to local grid, the EnerSolis series effects conversion process with minimal power loss and maximum reliability.

Highlights:

- Compact Size & Low Weight
- User Friendly LCD Display
- Uses High MTBF Component
- Convection Cooling (Fan-less)
- Intelligent DSP Controller
- Protection Class IP65
- Wide MPPT Range of 150 to 450 Vdc
- Intelligence MPPT Technology
- Anti-islanding Technology
- RS485 Communication
- De-rating Function
- High MPPT Tracker Efficiency
- Easy Installation



HOME/SMALL OFFICES



COMMERCIAL



RESIDENTIAL



SMALL CORPORATION

EnerSolis Single Phase Specifications

MODEL		AB-ES3000HC	AB-ES3680HC	AB-ES4000HC	AB-ES4600HC	AB-ESES5500T
Item	Inverter Technology	Conversion Mode			Sine-wave, Current source, High frequency PWM	
	Isolation Method	Transformer-less Design				
DC Input Data	Nominal DC Voltage	370 VDC				
	Max, DC Input Voltage	500 VDC				
	Working Range	120VDC-500VDC*				
	Max, DC Input current	1x15.8 Amp	2x9.7 Amp	2x10.5 Amp	2x12.1 Amp	2*13.2 Amp
	MPPT Range	150 VDC - 450 VDC				
	MPPT Tracker	1		2		
Efficiency	Max. Efficiency	>97,2%				
	Euro Efficiency	>96%				
	CEC Efficiency	>96%				
Enviromental	Operation Temperature	-25 °C ~ +50 °C / -13 °F ~ 122 °F				
	Altitude	0 to 90% (Without condensation)				
	Humidity	0 ~ 2000 M / 0 ~ 6600 ft				
Mechanical	Dimensions (WxHxD, mm/inch)	439x531x157 / 19,4x20,9x9x6,2				
	Weight (kg/lbs)	20 / 44				
	Protection Class	IP65, outdoor				
	Cooling	Convection				
	AC Connection	Screw Terminals				
	DC Connection	MC4				
Communication	Communication Interface	Standard: RS485 Optional: USB, Dry contact, WIFI, TCP/IP				
Front Panel	LCD	Boost input Voltage/Boost input Current /Boost input Power / AC output Voltage / AC output frequency / AC output current / AC output power / AC Energy yield / Inner Temperature / Heat sink Temperature / Status message / Error message				
	LED	Leakage current fault or DC input isolation fault				
		Spec. of Utility is not matches with the Utility specifications of the inverter				
		Solar Cell power is greater or smaller than sleep power				
Protection	Key Pad	UP key / Down key / Function key / Enter key				
	Utility	Over/under Voltage, Over/under Frequency				
		Ground fault, DC Isolation fault				
	Islanding operation detection	Passive: Voltage phase jump detection				
		Active: Reactive power control				
Certification	Over Temperature	Reduced output power				
	On-Gird Performance	VDE0126-1-1/A1, VDE-AR-N 4105				
	Salty	IEC 62109-1, IEC 62109-2, IEC 60730-1				
Certification	EMI/EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12				

*Specifications subject to change without notice.

