

EnerSolis Series

Grid-Connected Three Phase

The EnerSolis 6KW to 12KW is a three-phase PV inverter employing transformer-less and multi-level topology. It operates with two independent MPP Trackers that can handle asymmetric solar panels to allow for optimum adjustment and with two parallel MPP Trackers that can balance input current

Highlights:

- High Maximum Efficiency up to 98.1%
- Wide Input Voltage range 300~1000Vdc
- Dual Independent MPP Trackers
- High Performance DSP Controller
- Integrated DC Switch
- Protection Class IP65
- Automatic Convection Cooling Switch
- Compact Design and Easy to Install
- User Friendly LCD Display
- Built-in RS485 Interface Port
- TUV Rhineland Product Safety Certified
- EnerSolis Cloud-based Monitoring and Maintenance Platform



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EnerSolis Three Phase Specifications



MODEL			AB-ES6000	AB-ES8000	AB-ES10000	AB-ES12000	AB-ES25600HC	
Item	Inverter Technology	Conversion Mode	Sine-wave, Current source, High frequency PWM					
		Isolation Method	Transformer-less Design					
DC Input Data	Nominal DC Voltage		620 Vdc					
	Max, DC Input Voltage		1000 Vdc					
	Working Range		300 ~ 1000 Vdc					
	Max, DC Input current		2 x 8.5 Amp	2 x 11.4 Amp	2 x 14.3 Amp	2 x 14.3 Amp	22.7Amp	
	MPPT Range		370 ~ 850 Vdc	370 ~ 850 Vdc	370 ~ 850 Vdc	450 ~ 850 Vdc	370~950Vdc	
	MPPT Tracker		2					
AC Output Data	Nominal AC Power		6,000 Watt	8,000 Watt	10,000 Watt	12,000 Watt	25600VA/25600W	
	Max. AC Apparent Power		6,600 VA	8,800 VA	11,000 VA	12,000 VA		
	Nominal AC Voltage		AC 230 V x 3					220/380 or 230/400 Vac
	Output Connect Method		3-Phase / 4-Wires (L1, L2, L3, N, PE)					
	Nominal AC Current		8.69 Amp x 3	11.59 Amp x 3	14.49 Amp x 3	17.39 Amp x 3	37.1 Amp x 3	
	Frequency		50/60Hz Auto-Selection (47.5 ~ 51.5Hz or 59.3 ~ 60.5Hz)					
	Power Factor		Leading 0.9 ~ Lagging 0.9					0.8 leading ~ 0.8 lagging
Efficiency	Max. Efficiency		97.60%					
	Euro Efficiency		96.20%	96.60%	97.00%	97.25%	97.25%	
Environmental	Operation Temperature		-20 °C ~ +60 °C / -4 °F ~ 139 °F					
	Altitude		0 ~ 2000 m / 0 ~ 6600 ft					
	Humidity		0 to 100% (Without condensation)					
	Pollution degree classification		PD3					
	Overvoltage category (DC side)		Category II					
	(IEC 60664 - 1) (AC side)		Category III					
Mechanical	Dimensions (WxHxD, mm/inch)		595 x 451 x 247				457 x 279 x 805mm	
	Weight (kg)		41				62Kg	
	Protection Class		IP65, outdoor					
	Cooling		Temperature-dependent fan				Convection cooling	
	AC Connection		Connector					
	DC Connection		Connector					
Communication	Communication Interface		Standard: RS232 & 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	Red	On: Ground fault of DC input insulation fault					
		Yellow	On: Unit Error or Alarm					
		Green	Flash: Standby or Sleeping mode / On: Normal operation					
Key Pad		UP key/ Down key/ Function key/ Enter key						
Protection	Utility		Over/under Voltage, Over/under Frequency					
			Ground fault, DC Isolation fault					
	Islanding operation detection		Passive: Voltage phase jump detection					
			Active: Reactive power control					
Over Temperature		Reduced output power						
Certification	On-Grid Performance		VDE 0126-1-1, VDE AR-N 4105, AS 4777,2/3, ENEL 2010,			VDE 0126-1-1 VDE AR-N 4105	VDE-AR-N 4105	
	Safety		EN 62109-1, EN 61209-2, EN60730, AS 3100			EN 62109-1, EN 62109-2, EN 60730	EN 62109-1, EN 62109-2	
	EMI/EMC		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN61000-3-3			EN 61000-6-2, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3	EN61000-6-2, EN61000-6-4	

*Specifications subject to change without notice.

