



EnerSolis

ES 6000 / ES 8000 / ES 10000 / ES 12000

Three Phase Grid Connected Photovoltaic Inverter

- Acceptable Input Voltage up to 1000 Vdc
- Transformer-less Topology
- Maximum Efficiency 97.6%
- Protection Class IP65
- Dual Independent MPP Trackers
- Intelligent MPPT Technology
- Active and Passive Anti-islanding Technology
- Compact Design
- User Friendly LCD Display
- High MTBF Components
- Maximum Output Power Clamping
- Multi-Operation Mode
- Multi-Country Certification
- Temperature-dependent Fan Cooling
- Integrated DC Switch
- High Performance DSP Controller
- Built-in RS485 Communication Ports
- Firmware Upgradability
- Wide MPPT Voltage Range with Nominal Power
- Allowable De-rating Operation

Item	Model		ES 6000	ES 8000	ES 10000	ES 12000
DC Input Data	Nominal DC Voltage		620Vdc			
	Max. DC Input Voltage		1000Vdc			
	Start-up Input Voltage		250Vdc			
	Max. DC Input current		20Amp x1	20Amp x2	20Amp x2	20Amp x2
	MPPT Voltage Range		200Vdc~1000Vdc			
	MPPT		1	2		
	Module Capacity		1.2 time			
AC Output Data	Nominal AC Power		6kVA/6kW	8kVA/8kW	10kVA/10kW	12kVA/12kW
	Nominal AC Voltage		220/380Vac			
	Output Connect Method		3P4W (R,S,T,N,PE)			
	Nominal AC Current		9.09Amp x3	12.12Amp x3	15.15Amp x3	18.18Amp x3
	Max. AC Current		9.82Amp x3	13.06Amp x3	16.3Amp x3	19.54Amp x3
	Frequency		50/60Hz			
	Power Factor		0.8Lead~0.8Lag			
	THD		Comply with IEEE519			
Efficiency Data	Max. Efficiency		97.6%			
	Euro Efficiency		96.2%	96.6%	97.0%	97.25%
Environmental	Operating Temperature		-25°C~+60°C			
	Humidity		0~100%(Without condensation)			
	Altitude		0-2,000m/0-6,600ft			
Mechanical	Dimensions (W x D x H mm)		475 x 244 x 615 mm			
	Net Weight		41.5Kg			
	Protection Class		IP65 , Outdoor			
	Cooling		Forced air cooling			
Communication	Communication Interfaces		RS485			
	Display		LCD+LED			
Protection	DC	Standard	DC Switch, DC Isolation fault, SPD			
	AC	Standard	Ground fault, Over Current, SPD			
		Islanding operation detection	Passive: Voltage phase jump detection Active: Reactive power control			
Certification	Safety		EN 62109-1, EN 62109-2, CNS 15426-1, CNS 15426-2			
	On-Grid Performance		VDE-AR-N 4105, CNS 15382			
	EMI/EMC		EN61000-6-2, EN61000-6-4, CNS 14674-2, CNS 14674-4			
	Current Distortion		IEEE-519			
	International Protection		CNS 14165 IP65			
	Corrosion Standard		IEC 60068-2-52(severity 5)			