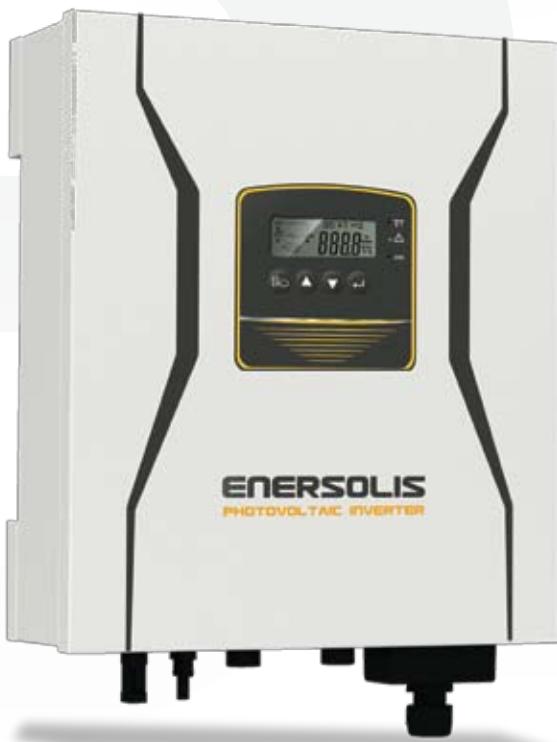


// **EnerSolis** **Grid-connected** **Photovoltaic Inverter** / ES1800W-2000W



- Highlights
- Compact Size & low weight
- User Friendly LCD Display
- Use High MTBF Component
- Convection Cooling (Fan-less)
- Intelligence DSP Controller
- Protection class IP65
- Wide MPPT range of 100 to 400 Vdc
- Intelligence MPPT Technology
- Anti-islanding Technology
- RS232 and RS485 communication
- De-rating function
- High MPPT tracker efficiency
- Easy installation
- Integrated DC switch

ES2000W Specifications

Model		ES 1800	ES 2000
Inverter Technology	Conversion Mode	Sine-wave, Current source, High frequency PWM	
	Isolation Method	Transformer-less Design	
DC Input Data			
Nominal DC Voltage		365 Vdc	
Max. DC Input Voltage		450 Vdc	
Working Range		80 ~ 450 Vdc	
Max. DC Input current		10.0 Amp	
MPPT Range		100 ~ 400 Vdc	
MPPT Tracker		1	
AC Output Data			
Nominal AC Power		1500 Watt	1800 Watt
Max. AC Apparent Power		<1800 Watt	<2000 Watt
Nominal AC Voltage		230 Vac (L-N)	
Output Connect Method		1-Phase / 2-Wire	
AC Voltage Rang		184V ~ 264.5V (Base on 230 Vac)	
Nominal AC Current		6.52 Amp	7.82 Amp
Frequency		50/60Hz Auto-Selection (47.5 ~ 51.5Hz or 59.3 ~ 60.5Hz)	
Power Factor		>0.99 with nominal AC current	
Current Distortion		Total Harmonic current : Less than 3%	
Efficiency Data			
Max. Efficiency		95.50%	
Euro Efficiency		94.00%	
Environmental			
Operating Temperature		-25 °C ~ +40 °C	
Humidity		0 to 90% (Without condensation)	
Altitude		0 ~ 2000 M	
Mechanical			
Dimensions (W x H x D)		302 x 352 x125 mm	
Weight		9 kgs	
Protection Class		IP65, outdoor	
Cooling		Convection	
AC Connection		Terminal	
DC Connection		Connector	
Communication			
Communication Interface		RS232 /RS485/EPO	
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 or DC isolation fault	
	Yellow	ON: Unit Error or Alarm	
	Green	Flash: Standby or Sleep 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		Downgraded output power	
Certification			
On-Gird Performance		VDE 0126 -1-1:2006+A1:A11, ENEL2010, AS4777.2/3, UKG83/1	
Safty		EN62109-1, AS3100	
EMI/EMC		EN61000-6-1, EN61000-6-3, EN61000-3-3	

*Specifications subject to change without notice.

