

Central Grid - Tied PV Inverter

ESL 1250-1500kW

1250/1500kW

EnSmart provides highly integrated solutions for large-scale centralized PV Plants. Usually, the installation capacity of this PV system is larger than 5MW and connected to the MV utility grid through a step-up transformer.



High Efficiency

- Max. DC/AC ratio up to 1.5
- High efficiency up to 99%

Easy Installation

- Modular design
- Max. 20 DC inputs

Reliable

- AGC/AVC
- Night SVG function
- LVRT/HVRT/FRT function

Technical Specifications

Model	ESL1250	ESL1500
INPUT		
Max. DC Input Voltage	1500VDC	
Mppt Voltage Range	800~1300VDC	900~1300VDC
Number Of DC Input	10	12
Max. Input Current	1750A	1870A
OUTPUT		
Rated Output Power	1250kW	1500kW
Max. Output Power	1375kW	1500kW
Rated Output Voltage	550VAC	600VAC
Output Voltage Range	(1±15%)×Rated AC Voltage (Adjustable ±5%, ±10%, ±15%)	
Grid Frequency Range	50/60Hz (±4.5Hz) (Adjustable)	
Rated AC Output Current	1312A	1443A
Max. AC Output Current	1443A	1443A
Power Factor	1 (0.9 Leading – 0.9 Lagging) (Adjustable)	
THDi	<3%	
SYSTEM FEATURES		
Max. Efficiency	99%	
Euro Efficiency	98.7%	
MPPT Efficiency	>99%	
Standby (Night Time) Losses	<50W	
Cooling Type	Forced Air Cooling	
Communication Interface	RS485, External Ethernet (Optional)	
ENVIRONMENT		
Operating Temperature Range	-40°C~ +60°C (More than 55°C Derating)	-40°C~ +60°C (More than 50°C Derating)
Humidity Range	0~95% (Non-Condensing)	
Altitude	3000m	
Noise Level	<65dB	
Protection Rating	IP21	
PROTECTION DEVICE		
AC Leakage Current Fault Protection	Yes	
LVRT	Yes	
Ground Fault Protection	Yes	
Anti-islanding Protection	Yes	
DC Overvoltage Protection	Yes	
DC Surge Protection	Yes	
AC Surge Protection	Yes	
DC Reverse-Polarity Protection	Yes	
PHYSICAL		
Dimensions WxDxH (mm)	1600x750x2100	
Weight (kg)	1600	

Highlights



EFFICIENT
HIGHER REVENUE



EASY
INSTALLATION



SAFE AND
RELIABLE