

# Central Grid - Tied PV Inverter

# ESL 500-750kW

## 500/630/750kW

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	ESG-30K	ESL0630	ESL0750
<b>INPUT</b>			
Max. DC Input Voltage	1000Vdc		
Mppt Voltage Range	450~850Vdc	520~850Vdc	500~850Vdc
Number Of DC Input	8	9	10
Max. Input Current	1200A	1400A	1500A
<b>OUTPUT</b>			
Rated Output Power	500kW	630kW	750kW
Max. Output Power	550kW	690kW	825kW
Rated Output Voltage	315Vac	360Vac	350Vac
Output Voltage Range	(1±20%)×Rated AC Voltage (adjustable ±5%,±10%,±15%,±20%)		
Grid Frequency Range	50 / 60Hz(±4.5Hz) (adjustable)		
Rated AC Output Current	916A	1010A	1237A
Max. AC Output Current	1008A	1111A	1360A
Power Factor	1 ( 0.9 leading – 0.9 lagging) (adjustable)		
THDi	<3%		
<b>SYSTEM FEATURES</b>			
Max. Efficiency	98.7%		
Euro Efficiency	98.5%		
MPPT Efficiency	>99%		
Standby (Night Time) Losses	<50W		
Cooling Type	Forced air cooling		
Communication Interface	RS485, External Ethernet (optional)		
<b>INPUT</b>			
Operating Temperature Range	-40°C ~ +60°C (More than 55°C derating)		
Humidity Range	0~95% (non-condensing)		
Altitude	3000m		
Noise Level	<65dB		<70dB
Protection Rating	IP21		
<b>PROTECTION DEVICE</b>			
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		
<b>PHYSICAL</b>			
Dimensions WxDxH (mm)	1200x800x2000		1600x850x2000
Weight (kg)	1200	1300	1450

## Highlights



EFFICIENT  
HIGHER REVENUE



EASY  
INSTALLATION



SAFE AND  
RELIABLE