

# Commercial Grid - Tied PV Inverter

# ESG 10-20kW

## 10K/12K/15K/17K/20K

EnSmart provides smart PV solutions for customers to utilize the roof resources. This inverter series is ideal for light commercial buildings and can power up to 20kW loads.



### High Efficiency

- Max. PV voltage up to 1000V
- High efficiency up to 98%

### Easy Installation

- Simple O&M
- WiFi/GPRS Plug optional

### Reliable

- DC/AC surge protection
- IP65 protection

## Technical Specifications

Model	ESG-10K	ESG-12K	ESG-15K	ESG-17K	ESG-20K
<b>INPUT</b>					
Max. DC Voltage	1000Vdc				
MPPT Voltage Range	250~950Vdc				
Full Load Voltage Range	480~800Vdc				
Rated DC Voltage	620Vdc				
Min. / Start DC Voltage	200 / 250Vdc				
Number of MPPT	2				
Strings per MPPT	1		2		
Max. Input Current per MPPT	13A/13A		21A/21A		
<b>OUTPUT</b>					
Rated AC Output Power	10kW	12kW	15kW	17kW	20kW
Max. AC Output Power	11kW	13kW	16kW	18kW	22kW
Rated AC Voltage	400Vac				
AC Voltage Range	400Vac±20%				
Rated AC Grid Frequency	50 / 60Hz				
AC Grid Frequency Range	50 / 60Hz(±5Hz)				
Max. Output Current	17A	20A	24A	27A	32A
Power Factor	0.8leading-0.8lagging				
THDi	<3%				
AC Connection	3W+N+PE/3W+PE				
Topology	Transformer-less				
<b>EFFICIENCY</b>					
Max. Efficiency	98%				
Euro Efficiency	97.5%				
<b>PROTECTION DEVICE</b>					
AC Leakage Current Fault Protection	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>ENVIRONMENT</b>					
Operating Temperature Range	-25°C ~ +60°C				
Noise Emission (Typical)	<40dB				
Cooling Type	Natural cooling				
Protection Rating	IP65				
<b>FEATURES</b>					
LCD Display	Yes				
Interfaces	RS485 (WiFi Plug/GPRS Plug optional)				
<b>PHYSICAL</b>					
Dimensions WxDxH (mm)	553×715×228				
Weight (kg)	35				39

## Highlights



EFFICIENT  
HIGHER REVENUE



EASY  
INSTALLATION



SAFE AND  
RELIABLE