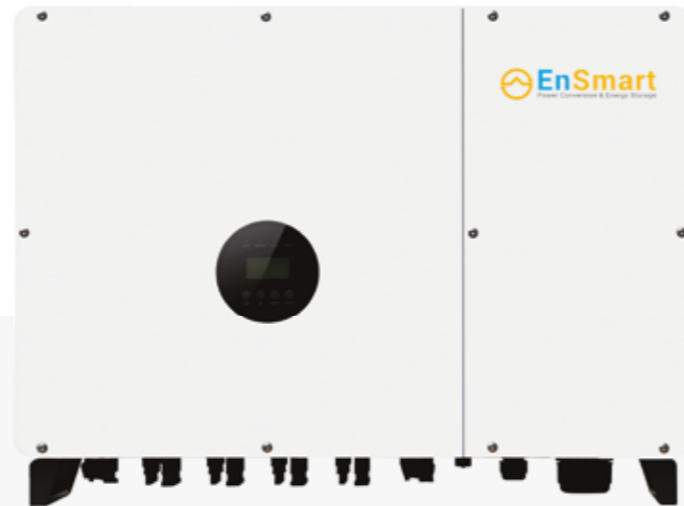


Commercial Grid - Tied PV Inverter

ESG ML 100kW

30K/50K/60K

EnSmart provides smart PV solutions for customers to utilize the roof resources. This inverter series is ideal for commercial buildings and can power up to 100kW loads.



High Efficiency

- Max. PV voltage up to 1000V
- High efficiency up to 99%

Easy Installation

- Simple O&M
- WiFi/GPRS Plug optional

Reliable

- DC/AC Type II SPD optional
- Positive DC fuse optional

Technical Specifications

Model	ESG-100K-ML	ESG-100K-MLM
INPUT		
Max. DC Voltage	1100V	1100V
MPPT Voltage Range	570~1000Vdc	200~1000Vdc
Full Load Voltage Range	570~850Vdc	550~850Vdc
Rated DC Voltage	710Vdc	620V
Min. / Start DC Voltage	570 / 620Vdc	200 / 250Vdc
Number of MPPT	1	9
Strings per MPPT	18	2
Max. Input Current per MPPT	198A	26A
OUTPUT		
Rated AC Output Power	100kW	
Max. AC Output Power	110kW	
Rated AC Voltage	400Vac	
AC Voltage Range	400Vac±20%	
Rated AC Grid Frequency	50 / 60Hz	
AC Grid Frequency Range	50 / 60Hz(±5Hz)	
Rated Output Current	145A	
Max. Output Current	160A	
Power Factor	0.8leading-0.8lagging	
THDi	<3%	
AC Connection	3W+N+PE/3W+PE	
Topology	Transformer-less	
EFFICIENCY		
Max. Efficiency	99.0%	
Euro Efficiency	98.7%	
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	
ENVIRONMENT		
Operating Temperature Range	-25°C~+60°C	
Noise Emission (Typical)	<60dB	
Cooling Type	Fans	
Protection Rating	IP65	
FEATURES		
LCD Display	Yes	
Interfaces	RS485 (WiFi Plug/GPRS Plug optional)	
PHYSICAL		
Dimensions WxDxH (mm)	880×595×295	1050×600×320
Weight (kg)	60	82

Highlights



EFFICIENT
HIGHER REVENUE



EASY
INSTALLATION



SAFE AND
RELIABLE