

Commercial Grid - Tied PV Inverter

ESG 136-200kW

136UH/200UH

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 200kW loads.



High Efficiency

- Max. PV voltage up to 1500V
- High efficiency up to 99%

Easy Installation

- Simple O&M
- WiFi/GPRS Plug optional

Reliable

- AFCI function
- Smart I-V curve function

Technical Specifications

Model	ESG-136UH	ESG-200UH
INPUT		
Max. DC voltage	1500Vdc	
MPPT voltage range	600~1500Vdc	
Rated input voltage	1080Vdc	
Start DC voltage	650Vdc	
Number of MPPT	6	12
Strings per MPPT	2	
Max. input current per MPPT	26A	
Max. Short Current per MPPT	35A	
OUTPUT		
Rated AC Output Power	136kW	200kW @40 C, 175kW @50 C
Max. AC Output Power	150kW	220kW
Rated AC Voltage	800Vac	
AC Voltage Range	640~920V	
Rated AC Grid Frequency	50 / 60Hz	
AC Grid Frequency Range	50 / 60Hz(±5Hz) (adjustable)	
Rated Output Current	145A	144.3A @40 C, 126.3A @50 C
Max. Output Current	160A	158.8A
Power Factor	0.8leading-0.8lagging	
THDi	<3%	
AC Connection	3W+PE	
Topology	Transformer-less	
EFFICIENCY		
Max. Efficiency	99.0%	
Euro Efficiency	98.5%	
PROTECTION DEVICE		
AC Leakage Current Fault Protection	Yes	
LVRT	Yes	
Ground Fault Protection	Yes	
Anti-Islanding Protection	Yes	
DC Overvoltage Protection	Yes	
Overvoltage Protection	DC Type II / AC Type II	
ENVIRONMENT		
Operating Temperature Range	-25°C~+60°C	
Noise Emission (Typical)	<60dB	<70dB
Cooling Type	Smart Air Cooling	
Protection Rating	IP66	
FEATURES		
LCD Display	LED Indicator, Bluetooth+APP	
Interfaces	RS485 / PLC (Optional)	
PHYSICAL		
Dimensions WxDxH (mm)	985x675x282	1085x675x282
Weight (kg)	85	90

Highlights



EFFICIENT
HIGHER REVENUE



EASY
INSTALLATION



SAFE AND
RELIABLE