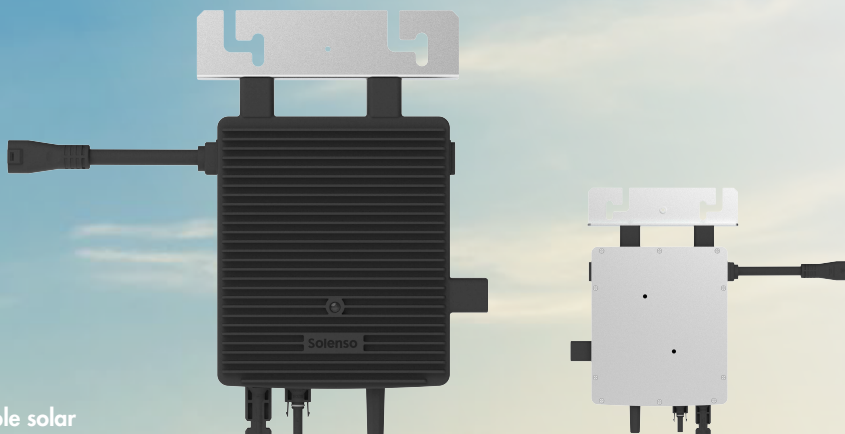


SOLENSO

Microinverter

Sol-H450
Sol-H500

AC version



Description

Solenso 1-in-1 microinverter is one of the most flexible solar solutions, which can be connected to one PV module and used in various settings.

All of these models are equipped with reactive power control and can meet the requirements of EN 50549-1:2019, VDE-AR-N 4105:2018, UL 1741, etc. They're also designed with external antenna for stronger communication with Solenso gateway DTU.



Safer



Smarter



More Powerful



More Reliable

Product Highlights

- Easy installation, just plug and play
- External antenna for stronger communication with DTU
- Power factor (adjustable) 0.8 leading.....0.8 lagging
- Compliant with VDE-AR-N 4105: 2018 & EN50549-1: 2019
- High reliability; NEMA (IP67) enclosure; 6000V surge protection



Technical Data

Model	Sol-H450	Sol-H500
Input Data (DC)		
Commonly used module power (Wp)	360 ~ 600+	400 ~ 670+
MPPT voltage range (V)	16 ~48	
Start-up voltage (V)	22	
Operating voltage range (V)	16 ~ 60	
Maximum input voltage (V)	60	
Maximum input current (A)	1 * 15	1 * 16
Maximum input short current (A)	25	
Output Data (AC)		
Rated output power (VA)	450	500
Rated output current (A)	1.97	2.17
Nominal output voltage /range (V)	230 / 180 - 270 ^①	
Nominal frequency /range (Hz)	50 / 45 – 55 ^①	
Displacement power factor (adjustable)	0.8 leading to 0.8 lagging	
Total harmonic distortion	< 3%	
Maximum units per branch (10AWG)	16	14
Efficiency		
CEC peak efficiency	96.50%	
Nominal MPPT efficiency	99.50%	
Nominal power consumption (mW)	< 50	
Mechanical Data		
Ambient temperature range (°C)	-40 ~ +65	
Dimensions (WxHxD mm)	193 × 165 × 32	
Weight (kg)	1.7	
Enclosure rating	IP67	
Cooling	Natural convection	
Features		
Communication	2.4G Hz Proprietary RF (Nordic)	
Isolation type	High Frequency Transformers (Galvanically Isolated)	
Monitoring	Sofia Pro Cloud ^②	
Compliance	VDE-R-N 4105:2018, EN 50549-1:2019, VER 2019, ICE/EN 62109-1/-2, IEC/EN 6100-6-1/-2-3/-4, ICE/EN 61000-3-2/-3	

① Nominal voltage/frequency range can be changed due to the requirements of local power department

② Solenso Monitoring System

MECHANICAL SPECIFICATION

