

Solar inverter (5kW)

DMISIONSPSSTXX

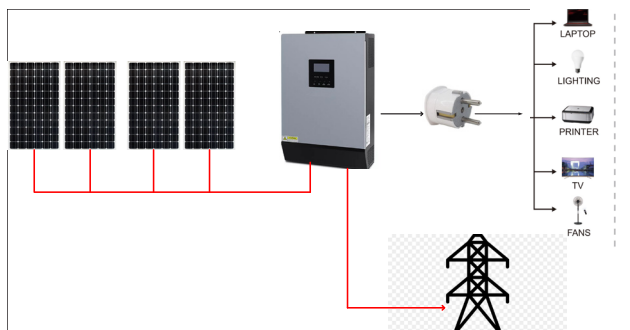


Introduction

5kW inverter cost-effectively converts the direct current generated by solar panels into high-quality alternating current that can be fed into the utility grid. These transformer-less, single-phase inverters are suitable for small and medium-sized photovoltaic systems connected to the public electricity network. The inverter offers a high conversion and MPPT tracking efficiency in all conditions. The high maximum DC voltage allows more photovoltaic modules to be connected in series which results in a higher string power for the same current. This helps reduce cabling power losses and also cabling size and cost.

Features

- Pure sine wave output
- Easy to use
- smart control unit with graphical display
- Compact design
- Wide photovoltaic voltage range
- Dual MPP followers
- Safe and reliable
- Support backup function
- High efficiency
- Transformerless & Low noise technique



Specifications

Product

INPUT(DC)

Max. Input power	5500W
MPPT input port quantity	2
Max. Input voltage	550V
Grid voltage	220V
Rated input voltage	360V
MPPT voltage range	90V~580V
Full load MPPT voltage range	250V~520V
Max. input current	11A / 11A
Input terminal type	MC4 / H4

OUTPUT(AC)

Max. AC power	5000VA
Nominal AC voltage range	180V~276V
Power network frequency range	54~66Hz
Max. Output current	22.8A
Total harmonic component (current)	<3%
Power factor	1 (+/-0.8 adjustable)

FUNCTION

Efficiency	92.5%
Night power consumption	<1W
Initial power	50W
MPPT efficiency	>95.9%

General Data

Ambient temperature range	25°C~+60°C (Reduced load over 45°C)
Topology	No transformer
Protection level	IP65
Max. Working altitude	4000m
Noise	<25dB
Cooling method	Natural convection