VOLTACON®
ENERGY SYSTEMS

Microinverter VOLTACON

VMI500 / VMI550 / VMI600



Datasheet



Description

With the maximum output power of 600W, VOLTACON VMI500/VMI550/VMI600 microinverter connect to 1 panel and enable module-level maintenance and management of the PV station by monitoring power generation of each module.
Module-level data can be uploaded to the monitoring platform via VOLTACON data transfer units through PLCC/Zigbee.

Maximum output power up to 600W/channel, adapted to 60,66,72,75 cell or 120,132,144,150sub cell PV panels

Static MPPT efficiency 99.80%

High reliability, IP67 (NEMA 6) enclosure, 6000 V surge protection

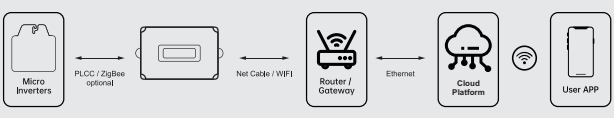


Input Data (DC)			
Model	VMI500	VMI550	VMI600
Recommended Input Power (STC)	400~670W Single, 60~75 full/120~150 sub cells (300~450W)*2 Parallel, 72~75 full/144~150 sub cells		
MPPT Voltage Range	24V-50V		
Operating Voltage Range	16V-60V		
Maximum Input Voltage	60V		
Max. Short Circuit Current	20A		
Max. Input Current	18A		
Output Data(AC)			
Rated Output Power	500W	550W	600W
Maximum Output Power	520VA (Vac≥230, Vmp≥34)	570VA (Vac≥230, Vmp≥35)	620VA (Vac≥230, Vmp≥36)
Rated Voltage/range	230V/176-265V		
Rated Frequency/range	50Hz/60Hz (46.5-62)Hz		
Maximum Continuous Output Current	2.27A	2.5A	2.73A
Maximum Harmonic Distortion	<3%		
Power Factor	>0.99 (Default)		
Maximum Connection Number In One String	8 units (24A circuit breaker, 10AWG cable)		

Efficiency	
Peak Efficiency	96.5%
European Efficiency	96%
MPPT Efficiency	>99.8%
Night Power Consumption	<100mW
Other Parameters	
Communication Method	Optional
Safety Protection	Classe I
Enclosure Rating	IP67
Operating Temperature	-40℃ to +70℃
Storage Temperature	-40℃ to +85℃
Relative Humidity	0-98%
Transformer Design	High frequency transformer, Electrical isolated
Overvoltage Class	OVC III (AC), OVC II (PV)
Warranty Period	10 / 25years Optional
Dimensions(L*W*H mm)	210*230*34
Weight(kg)	2.39
Safety Regulations	VDE-AR-N 4105, EN50549-1, NC RFG, C10/11, INMETRO ABNT ABR 16149/16150/62116, CEI-0-21, AS/NZS 4777, VFR2019, G98, IEC/EN61000, IEC/EN62109

Monitoring Device

Communication with VOLTACON microinverters through PLCC/Zigbee enables users to manage the systems in a smart digital way.



VOLTACON UK LIMITED
Address : BURNSALL ROAD INDUSTRIAL ESTATE COVENTRY CV5 6BU ENGLAND
TEL : +44 2477 675 575 Email : INFO@VOLTACON.COM
VERSION : 20220927
For the latest version of specification, please refer to www.voltaconsolar.com or contact to info@voltacon.com
We reserve the right to explain the terms of specification.