

# Single Phase (1-3kW)



SKU:

EAN:

## FEATUES

Afore single-phase series of household solar inverters are designed for household power plants with rated power from 1kW to 3kW. The solar inverters make full use of solar energy resources to supply power to the home.

- No fans design
- Quick and easy installation
- AC output 1.1x continuous operation
- MPPT efficiency > 99.9%
- Compact and light body design
- Reactive power compensation, adjust power factor



## SPECIFICATION

V Input Data	1Kw	1.5Kw	2Kw	2.5Kw	3Kw
Max.DC Power( W )	1500	2250	3000	3750	4200
Max. DC Voltage(V)	500	500	500	500	500
MPPT Voltage Range ( V )	50-500	50-500	50-500	50-500	50-500
MPPT Full Power Voltage Range( V )	70-500	110-500	145-500	180-500	220-500
Rated Input Voltage( V )	360				
Start-up Voltage( V )	50				
Max.Input Current( A)	14				
Max. Short Current(A)	18				
No. of MPP Tracker /No. of PV String	1/1				
Input Connector Type	MC4				
AC Output Data	1Kw	1.5Kw	2Kw	2.5Kw	3Kw
Max. Output Power( W )	1100	1650	2200	2750	3300
Nominal Output Power ( W )	1000	1500	2000	2500	3000
Max. Output Current ( A )	6	9	12	13	15
Nominal Output Voltage ( V )	L/N/PE,220Vac,230Vac,240Vac				
Grid Voltage Range	180Vac-276Vac(According to local standard)				
Nominal Output Frequency ( Hz )	50/60				
Grid Frequency Range	45-55Hz/54-66Hz(According to local standard)				
Output Power Factor	1 default (adjustable from0.8 leading to 0.8 lagging)				
Output Current THD	<3%				
Efficiency	1Kw	1.5Kw	2Kw	2.5Kw	3Kw
Max.Efficiency	97.50%	97.80%	98.10%	98.10%	98.13%
Euro Efficiency	96.60%	96.70%	96.80%	97.23%	97.56%
Protection	1Kw	1.5Kw	2Kw	2.5Kw	3Kw
PV Reverse Polarity Protection	YES				

PV Insulation Resistance Detection	YES
AC Short Circuit Protection	YES
AC Over Current Protection	YES
AC Over Voltage Protection	YES
Anti-Islanding Protection	YES
Residual Current Detection	YES
Over Temperature Protection	YES
Integrated DC switch	YES
Surge Protection	Integrated (Type III)
Smart IV Curve Scanning	YES
Quick Arc Fault Circuit Interruption	Optional

General Data	1Kw	1.5Kw	2Kw	2.5Kw	3Kw
Dimensions (H x Wx D, mm)	260x280x116				
Weight ( kg )	6				
Protection Degree	IP65				
Enclosure Material	Aluminum				
Ambient Temperature Range (C)	-25-+60				
Humidity Range	0-100%				
Topology Communication Interface	RS485 / WiFi /Wire Ethernet /GPRS(optional)				
Cooling Concept	Convection				
Noise Emission ( db )	< 21				
Night Power Consumption ( W )	< 0.2		< 1		
Max. Operation Altitude ( m )	4000				

Certifications and Standards	1Kw	1.5Kw	2Kw	2.5Kw	3Kw
EMC Standard	EN/IEC 61000-6-2,EN/IEC 61000-6-3,EN61000-3-2,EN61000-3-3,EN61000-3-11,EN61000-3-12				
Safety Standard	IEC 60068,UL1741,EN62109				
Grid-connection	IEEE1547.CSA C22, EN50549,VDE4105,VDE0126, RD1699, ABNT NBR16149 &16150,AS47772NB/T32004,G98/G99,IEC61727				