

Single Phase (7-10kW)



SKU:

EAN:

FEATUES

Afore single-phase series of household solar inverters are designed for household power plants with rated power from 7kW to 10kW. Equipped with external inductors, ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters..

- No fans design
- Quick and easy installation
- High-quality power output and low THDI
- MPPT efficiency > 99.9%
- Two MPPT design
- Reactive power compensation, adjust power factor



SPECIFICATION

V Input Data	7Kw	8Kw	9Kw	10Kw
Max.DC Power(W)	9800	11200	12600	14000
Max.DC Voltage(V)			600	
MPPT Voltage Range(V)			70-550	
MPPT Full Power Voltage Range(V)			220-550	
Rated Input Voltage(V)			360	
Start-up Voltage(V)			70	
Max.Input Current(A)		14+26		26+26
Max. Short Current(A)		18+35		35+35
No. of MPP Tracker /No. of PV String		2/3		2/4
Input Connector Type			MC4	
AC Output Data	7Kw	8Kw	9Kw	10Kw
Max. Output Power(W)	7700	8800	9900	11000
Nominal Output Power(W)	7000	8000	9000	10000
Max. Output Current(A)	33.6	38.3	45	50
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 from 0.8 leading to 0.8 lagging)	
Output Current THD			<3%	
Efficiency	7Kw	8Kw	9Kw	10Kw
Max.Efficiency	98.20%	98.20%	98.32%	98.40%
Euro Efficiency	97.95%	98.00%	98.00%	98.10%

Protection	7Kw	8Kw	9Kw	10Kw
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	7Kw	8Kw	9Kw	10Kw
Dimensions (H x Wx D, mm)			510x370x167	
Weight (kg)		17		13
Protection Degree			IP65	
Enclosure Material			Aluminum	
Ambient Temperature Range (C)			-25 to 60	
Humidity Range			0-100%	
Topology			Transformerless	
Communication Interface			RS485 / WiFi /Wire Ethernet /GPRS(optional)	
Cooling Concept			Convection	
Noise Emission (db)			< 40	
Night Power Consumption (W)			< 1	
Max. Operation Altitude (m)			4000	

Certifications and Standards	7Kw	8Kw	9Kw	10Kw
EMC Standard	EN/IEC 61000-6-2EN/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			