

W1 SINGLE PHASE INVERTER

1 KW TO 3 KW

WAAREE[®]
One with the Sun

 Power Factor Adjustable

 Suitable For 3-Panel System

 Less than 25dB

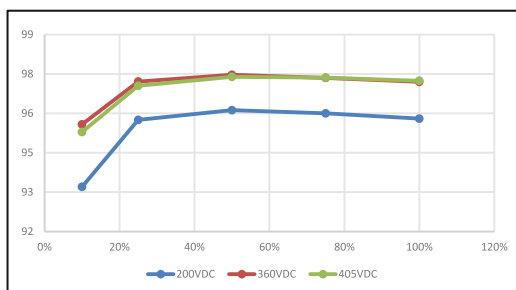
Wide MPPT Range 

Export Control 

Remote Upgrade 



Efficiency curve



Integrated WiFi solution for remote monitoring
multiple user access

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1 KW TO 3 KW



Technical Data	W1-1K-G3	W1-2K-G3	W1-3K-G3
PV String Input Data			
Max. DC Input Power (W)	1500	3000	4500
Max. DC Input Voltage (V)	500	500	550
MPPT Range (V)	50-500V	50-500V	50-550
Start-up Voltage (V)	70	70	70
MPPT Range for Full Load (V)	110-450	200-450	300-500
Nominal DC Input Voltage (V)	360	360	360
Max. Input Current (A)	12	12	12
Max. Short Current (A)	15	15	15
No. of MPP Trackers	1	1	2
No. of Input Strings per Tracker	1	1	1
AC Output Data			
Nominal Output Power (W)	1100	2200	3300
Max. Output Apparent Power (VA)	1100	2200	3300
Nominal Output Voltage (V)	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	5.3	10.6	16
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.5%	97.5%	97.7%
Euro Efficiency	96.9%	96.9%	97.2%
Protection			
Anti-islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
General Data			
Operating Temperature Range (°C)	-25 ~ 60	-25 ~ 60	-25 ~ 60
Relative Humidity	0 ~ 95%	0 ~ 95%	0 ~ 100%
Operating Altitude (m)	≤ 2000	≤ 2000	≤ 4000
Cooling	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<25	<25	< 25
User Interface	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 / WiFi	RS485 / WiFi	RS485 / WiFi
Weight (kg)	5.5	5.5	6.3
Size (Width*Height*Depth mm)	297*260*118	297*260*118	315*260*118
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless
Certifications & Standards			
Grid Regulation	VDE0126-1-1, AS4777.2, EN50438(PL), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013		VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G83, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013
Safety Regulation	IEC62109-1&2		
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29		

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