

W1 SINGLE PHASE INVERTER

3 kW TO 5 kW

WAAREE
One with the Sun



Wide MPPT Range



Maximum Efficiency 98%



Multiple-monitoring Method
(Wi-Fi, RS485, WLAN)

10% continuous overload capacity



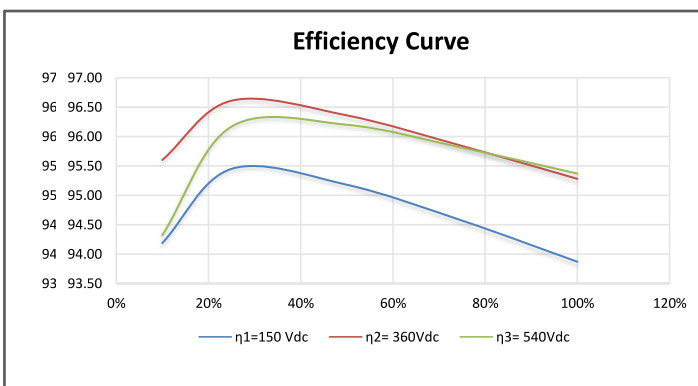
30% lighter than similar products,
easy to install



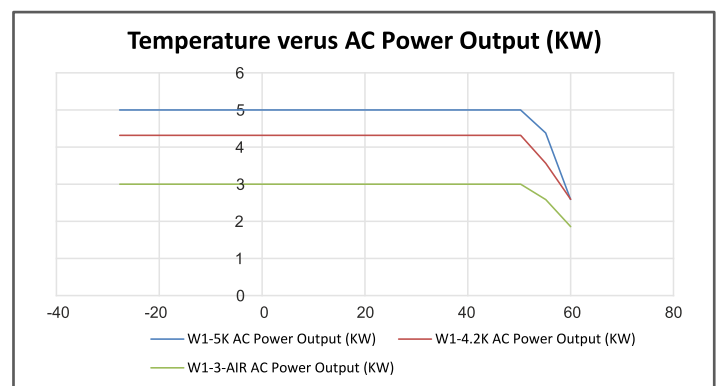
IP 65 dust-proof and water-proof



Model : W1-3 kW To 5 kW



Temperature versus AC Power Output (KW) for W1- 3 kW To 5 kW



Integrated WiFi Solution

multiple user access and mobile Apps



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Technical Data	W1-3-D	W1-4.2-D	W1-5-D
PV String Input Data			
Max. DC Input Power (W)	3900	5460	6500
Max. DC Input Voltage (V)	600	600	600
MPPT Range (V)	80~550	80~550	80~550
Start-up Voltage (V)	120	120	120
MPPT Range for Full Load (V)	150~550	210-550	250-550
Nominal DC Input Voltage (V)	360	360	360
Max. Input Current (A)	11/11	11/11	11/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8
No. of MPP Trackers	2	2	2
No. of Input Strings per Tracker	1	1	1
AC Output Data			
Nominal Output Power (W)	3000 st	4200* ₁	5000* ₁
Max. Output Apparent Power (VA)	3000	4200	5000
Nominal Output Voltage (V)	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	13.6	19	22.8
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	97.8%	97.8%	97.8%
Euro Efficiency	97.5%	97.5%	97.5%
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	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000
Cooling	Natural Convection		
Noise (dB)	<25	<25	<25
User Interface	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 / WiFi	RS485 / WiFi	RS485 / WiFi
Weight (kg)	14	14	14
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless
Certifications & Standards			
Grid Regulation	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	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, 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		

**Refer To Waaree's Warranty Document For Terms & Conditions

*The Specifications Are For The References Purpose Only.

Waaree Reserves The Right To Change The Specifications Without Prior Notice.