

WAAREE®

One with the Sun



- Maximum Efficiency up to 98.3%
- MPPT efficiency up to 99.9%
- Built-in Wi-Fi & DC Switch
- IP65 dust-proof and water-proof
- 45°C full-load output
- Multiple monitoring and communication
- Super large 5-inch LCD
- Fanless low-noise design
- Very compact design, lighter than similar products
- Easy to install

Integrated WiFi Solution
multiple user access and mobile Apps



Technical Data

W3-4K

W3-5K

W3-6K

W3-8K

W3-9K

DC Input Data

Max. allowed PV Power [W]	5200	6500	7800	9600	10800
Nominal DC Power [W]	4200	5200	6200	8300	9400
Max. DC voltage [V]	1000	1000	1000	1000	1000
MPPT voltage range [V]	200~800	200~800	200~800	200~850	200~850
Starting voltage [V]	180	180	180	180	180
Max. DC current [A]	11/11	11/11	11/11	11/11	11/11
No. of DC connectors	2	2	2	2	2
No. of MPPTs	2 (can parallel)			2 (can parallel)	
DC connector	MC4/ Phoenix/ Amphenol			MC4/ Phoenix/ Amphenol	

AC Output Data

Norminal AC power [W]	4000	5000	6000	8000	9000
Max. AC power [W]	4000	5000	6000	8000	9000
Max. AC current [A]	7	8.5	10	12.1	13.6
Norminal AC output	50/60Hz; 400Vac			50/60Hz; 400Vac	
AC output range	45~55Hz/55~65Hz; 310~480Vac			45~55Hz/55~65Hz; 310~480Vac	
THDi	<1.5%			<2%	
Power factor	0.8 leading~0.8 lagging			0.80leading...0.80lagging	
Grid connection	3W/N/PE			3W/N/PE	

Efficiency

Max. efficiency	98%	98%	98%	98.3%	98.3%
Euro efficiency	>97.5%	>97.5%	>97.5%	>98.0%	>98.0%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%	99.9%

Protection

Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch	Integrated (optional)	Integrated(optional)
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated

Certifications & Standards

Grid regulation	VDE-AR-N 4105, AS4777.2, ERDF-NOI-RES_13E; VDE0126-1-1, EN50438 ,G83/2	VDE-AR-N 4105, AS4777.2, ERDF-NOI-RES_13E; VDE0126-1-1, EN50438 ,G83/2
Safety	IEC62109-1&-2	IEC62109-1&-2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3

General Data

Dimensions (WxHxD) [mm]	516*474*192	516*474*192
Weight [kg]	24	24
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	4000m(> 3000m derating)	4000m(> 3000m derating)
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Night power consumption [W]	<1	<1
Cooling	Natural convection	Natural convection
Noise emission [dB]	<30	<30
Display	5.0" LCD	5.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

WAAREE®

One with the Sun



- Maximum Efficiency up to 98.5%
- MPPT efficiency up to 99.9%
- Built-in Wi-Fi & DC switch
- IP65 dust-proof and water-proof
- 45°C full-load output

- Multiple monitoring and communication
- Super large 5-inch LCD
- 30% lighter than similar products, easy to install
- Fan with highest protection class of IP68
- Zero Voltage Ride Through
- leading efficiency performance

Integrated WiFi Solution
multiple user access and mobile Apps



Technical Data

W3-25K

W3-30K

	W3-25K	W3-30K
DC Input Data		
Max. allowed PV Power [W]	32500	40300
Nominal DC Power [W]	25800	31900
Max. DC voltage [V]	1000	1000
MPPT voltage range [V]	260~850	260~850
Starting voltage [V]	250	250
Max. DC current [A]	27/27	27/27
No. of DC connectors	6	6
No. of MPPTs	2 (can parallel)	2 (can parallel)
DC connector	MC4 /Phoenix /Amphenol	MC4 /Phoenix /Amphenol
AC Output Data		
Norminal AC power [W]	25000	31000
Max. AC power [W]	25000	31000
Max. AC current [A]	37	37.3
Norminal AC output	50/60Hz; 400Vac	50/60Hz;480Vac
AC output range	45~55Hz/55~65Hz; 310~480Vac	45~55Hz/55~65Hz; 422~528Vac
THDi	<1.5%	<1.5%
Power factor	0.8 leading~0.8 lagging	0.8 leading~0.8 lagging
Grid connection	3W/N/PE	3W/PE
Efficiency		
Max. efficiency	98.4%	98.5%
Euro efficiency	>98.1%	>98.2%
MPPT adaptation efficiency	99.9%	99.9%
Protection		
Residual current monitoring unit	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated
Insulation monitoring	Integrated	Integrated
Certifications & Standards		
Grid regulation	VDE-AR-N 4105, IEC61727, VDE0126-1-1, EN50438, G59/3;	NB/T 32004, GB/T19964
Safety	IEC62109-1&-2	NB/T 32004
EMC	EN 61000-6-1,EN 61000-6-2,EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12	NB/T 32004
General Data		
Dimensions (WxHxD) [mm]	516*650*203	516*650*203mm
Weight [kg]	40	40
Mounting	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%
Max. operating altitude	4000m(> 3000m derating)	4000m(> 3000m derating)
Protection degree	IP65	IP65
Topology	Transformerless	Transformerless
Night power consumption [W]	<1	<1
Cooling	Fan cooling	Fan cooling
Noise emission [dB]	<45	<45
Display	5.0" LCD	5.0" LCD
Communication	RS485; Wi-Fi; GPRS; Ethernet	RS485; Wi-Fi; GPRS; Ethernet
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)



Four-MPPT Three-Phase Solar Inverter
50kW / 60kW / 65kW / 75kW

- Maximum Efficiency up to 98.8%
- MPPT efficiency up to 99.9%
- Four MPP trackers
- Ultra-multifunctional LED display screen
- Multiple monitoring and communication(Wi-Fi/RS485/Ethernet)
- DC&AC lightning protection(Type II)
- IP65 dust-proof and water-proof (uniquely with IP68 Fan)
- 10% continuous overload capability (50KW/60KW)
- Combiner box integration function
- Real-time monitoring on up to 13 strings of panels

Technical Data

W3-50K

W3-60K

W3-65K

W3-75K

DC Input Data

Max. allowed PV Power [W]	60000	72000	75000	80000
Nominal DC Power [W]	51500	62000	67000	77000
Max. DC voltage [V]	1000	1000	1000	1000
MPPT voltage range [V]	260~850	260~850	260~850	260~850
Starting voltage [V]	250	250	250	250
Max. DC current [A]	28 / 28 / 19 / 19	28 / 28 / 28 / 28	28 / 28 / 28 / 28	28 / 28 / 28 / 36
No. of DC connectors	10	12	12	13
No. of MPPTs	4	4	4	4
DC connector	MC4/ Phoenix/ Amphenol		MC4/ Phoenix/ Amphenol	

AC Output Data

Nominal AC power [W]	50000	60000	65000	75000
Max. AC power [W]	55000	64000	66480	75000
Max. AC current [A]	80	90	80	90
Nominal AC output	50/60Hz; 400Vac		50/60Hz; 480Vac	
AC output range	45~55Hz/55~65Hz; 310~480Vac		45~55Hz/55~65Hz; 422~528Vac	
THDi	<3%		<3%	
Power factor	0.80leading...0.80lagging		0.80leading...0.80lagging	
Grid connection	3W/N/PE		3W/PE	

Efficiency

Max. efficiency	98.7%	98.8%	98.8%	98.8%
Euro efficiency	98.3%	98.5%	98.5%	98.5%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%

Protection

Residual current monitoring unit	Integrated		Integrated	
Anti-islanding protection	Integrated		Integrated	
PV array string fault monitoring	Integrated		Integrated	
DC fuse	Integrated		Integrated	
DC switch	Integrated (optional)		Integrated (optional)	
DC SPD	Type II		Type II	
AC SPD	Type II		Type II	
SPD fault monitoring	Integrated		Integrated	
AC over current protection	Integrated		Integrated	
Insulation monitoring	Integrated		Integrated	

Certifications & Standards

Grid regulation	VDE0126-1-1, AS4777.2, G59/3, VDE-AR-N 4105, EN50438, PEA	VDE0126-1-1, EN50438, G59/3, VDE-AR-N 4105, AS4777.2,	VDE0126-1-1, VDE-AR-N 4105, AS4777.2, G59/3, EN50438	
Safety	EN62109-1&-2	EN62109-1&-2	EN62109-1&-2	
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	

General Data

Dimensions (WxHxD)	586*915*263mm		586*915*263mm	
Weight (kg)	66kg		68kg	
Mounting	Wall bracket		Wall bracket	
Ambient temperature range	-25~60°C		-25~60°C	
Relative humidity	0~95%		0~95%	
Max. operating altitude	4000m		4000m	
Protection degree	IP65		IP65	
Topology	Transformerless		Transformerless	
Cooling	Fan cooling		Fan cooling	
Display	LCD		LCD	
Communication	USB; RS485; WiFi/GPRS		USB; RS485; WiFi/GPRS	
Standard warranty(years)	5/10/15/20/25(optional)		5/10/15/20/25(optional)	