

W3 THREE PHASE INVERTER

50 KW TO 80 KW

WAAREE®



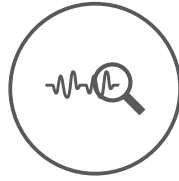
Built-in Wi-Fi & DC Switch



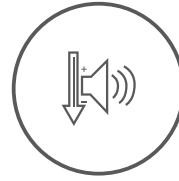
Ultra-multifunctional LED display screen



Multiple monitoring and communication



Up to 10% continuous overload capacity



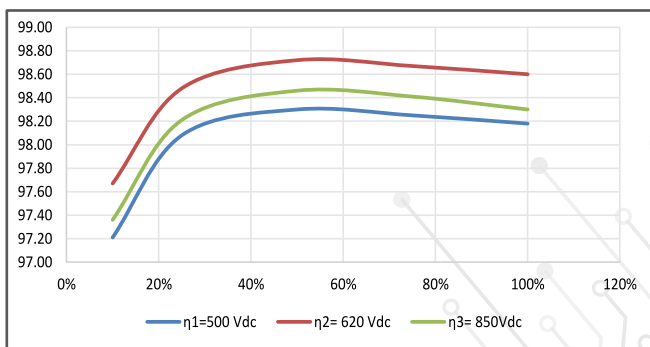
Fanless low noise design



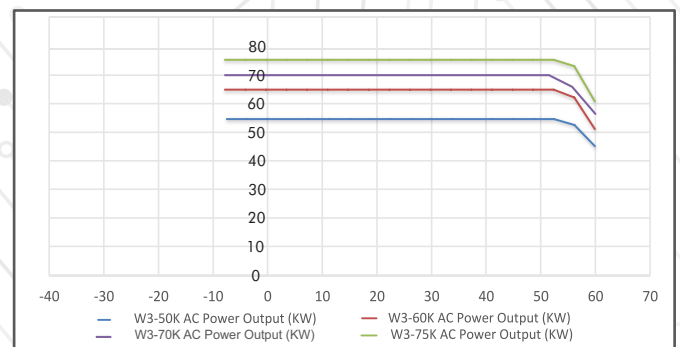
IP 65 dust-proof and water-proof



EFFICIENCY CURVE



USE EFFICIENCY & TEMPERATURE CURVE OF W3 - 50 KW TO 80 KW



WiFi/GPRS solution for remote monitoring
Multiple user access



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Technical data	W3-50K	W3-60K	W3-70K	W3-75K	W3-80K
PV string input data					
Max DC input power (W)	65000	80000	87500	80000	120000
Max DC input voltage (V)	1000	1000	1000	1000	1100
MPPT range (V)	200-800		200-1000	260-850	200-1000
Start-up voltage (V)	200			250	200
MPPT range for full load (V)	520-850		550-850		
Nominal DC input voltage (V)	620		750		620
Max input current (A)	30/30/20/20	30/30/30/30	33/33/33/33	28/28/28/36	44/44/44/44
Max short current (A)	38/38/25/25	38/38/38/38	41.5/41.5/41.5/41.5		55/55/55/55
No. of MPP Trackers	4				
No. of input strings per tracker	3/3/2/2	3/3/3/3		3/3/3/4	4/4/4/4
AC output data					
Nominal output power (W)	50000	60000	70000	75000	80000
Max output power (W)	55000, 57500@415Vac	66000, 69000@415Vac	77000	75000	92000, 96000@415Vac
Max output apparent power (VA)	55000, 57500@415Vac	66000, 69000@415Vac	77000	75000	92000, 96000@415Vac
Nominal output voltage (V)	400, 3L/N/PE or 3L/PE		500, 3L/PE	480, 3L/PE	400, 3L/N/PE or 3L/PE
Max output current (A)	80	96	89	90	133
Output power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@ nominal output)	<3%				
Efficiency					
Max efficiency	98.70%	98.80%	99%	98.80%	98.80%
Euro efficiency	98.30%	98.50%	98.40%	98.50%	98.30%
Protection					
PV string current monitoring	Integrated				
Anti-islanding protection	Integrated				
Input reverse polarity protection	Integrated				
Insulation resistor detection	Integrated				
DC fuse	Integrated				
Anti-PID function for module	Optional				
DC SPD protection	Integrated (Type II)				
AC SPD protection	Integrated (Type II)				
Residual current monitoring unit	Integrated				
Output over current protection	Integrated				
AC over current protection	Integrated				
AC short protection	Integrated				
AC over voltage protection	Integrated				
General data					
Operating temperature range (°C)	-30~60				
Relative humidity	0-100%				
Operating altitude (m)	≤4000				
Cooling	Fan cooling				
Display	LCD/Wi-Fi+APP		LED/Wi-Fi+APP, LCD (Optional)		LED/Wi-Fi+APP
Communication	RS485/Wi-Fi		RS485/Wi-Fi, PLC (Optional)		
Weight (kg)	59	64	60	68	70
Size (width*height*depth mm)	586x788x264			586x915x263	586x788x264
Protection degree	IP65				
Night self-consumption (W)	<1				
Topology	Transformer-less				
Certifications & standards					
Grid regulation	VDE V 0126-1-1, VDE-AR-N 4105, AS/NZS 4777.2, EN50438, G59, IEC61727, IEC62116			VDE-AR-N 4105, IEC61727, IEC62116	
Safety regulation	IEC62109-1&-2				
EMC	EN 6100-6-4, 2007+A1:2011, EN 61000-6-2:2005, EN 61000-3-11:2000, EN 61000-3-12:2011+AC:2013			EN61000-6-1&-2&-3&-4	