



**QUALITY DESIGN | GREAT DURABILITY |
EASY INSTALLATION**

5 YEARS | *Product warranty*

General Data

Type	12KW	15KW	17KW	20KW	25KW	33KW	40KW	50KW	60KW
Topology	Transformless								
Consumption at Night [W]	<0,6								
Consumption at Standby [W]	<10								
Operating Temperature Range	-25°C a +60°C								
Cooling Method	Intelligent fan								
Ambient Humidity	0% to 100% Non-condensing								
Altitude	3000m (> 2000m power derating)								
Noise [dBA]	<35								
Ingress Protection	IP65 (Indoor & Outdoor Installation)								
Mounting	Rear Panel								
Dimensions (H*W*D) [mm]	640*450*232			700*530*260			800*550*280		
Weight [kg]	29		33		48		68		
Standard Warranty [Year]	5 (Standard) / 10 / 15 / 20 / 25 (Optional)								
Certificates	IEC/EN62109-1/2, EN61000-6-2/3, IEC61683, IEC60068-2, IEC62116, IEC61727, VDE0126-1-1/A1, VDE-AR-N 4105, CQC NB/T 32004, G83/2,NBR 16149, NBR 16150,C10/11,EN50438, RD1669,UNE206006,UNE206007,G59/3								

Input (DC)

Max. DC Power [W]	14520	18150	20570	24200	30300	36300	48400	60500	72000
Max. DC Voltage [V]	1000								
MPPT Voltage range [V]	180-900						280-900		
Nominal DC Voltage [V]	600								
Start Voltage [V]	200						300		
Min. DC Voltage [V]	180						250		
Max. DC Input Current [A]	22/11	22/22			22/22/22		40/30/30		40/40/40
Number of MPPT	2				3				
Number of DC Connection Sets per MPPT	2/1	2/2			2/2/2		4/3/3		4/4/4
DC Switch	Integrated								

Output (AC)

Rated AC Power [W]	12000	15000	17000	20000	25000	30000	40000	50000	60000
Max. AC Power [W]	13200	16500	18700	22000	27500	33000	44000	55000	60000
Rated AC Current [A]	17,4	21,7	25,8	29	37,9	45,5	48	72,5	87
Max. AC Current [A]	20	25	28,3	33	42	50	65	80	90
Nominal AC voltage/ range	3L/N/PE, 220/380V, 230/400V, 240/415V; 180V-280V/312V-485V								
Grid frequency/ range	50Hz, 60Hz / 44Hz-55Hz, 54-65Hz								
Power factor[cos φ]	0,8 leading ~ 0,8 lagging								
Total Harmonic Distortion [THDi]	< 3% (at nominal power)								
Feed-in	3L+N+PE								

Protection

Type	12KW	15KW	17KW	20KW	25KW	33KW	40KW	50KW	60KW
Internal Over-voltage Protection	Integrated								
DC Insulation Monitoring	Integrated								
DCI Monitoring	Integrated								
GFCI Monitoring	Integrated								
Grid Monitoring	Integrated								
AC Short Circuit Current Protection	Integrated								
LVRT	III (Integrated), II (Optional)					II (Integrated)			
Thermal Protection	Integrated								
AC Surge Protection	II (Optional)					II (Integrated)			
String Current Monitoring	Optional								
Anti-PID Module	AFD								

Interface

DC Connection	MC4/H4
AC Connection	Terminal Block
LCD & LED Display	3.5 inch Graphic LCD Display, B
Display Language	English
Communication port	2*RS485 / 1*RS232
Communication	Wi-Fi / GPRS / Ethernet (Optional)

Efficiency

Max. Efficiency	98,3%-98,9%
Euro Efficiency (at 600Vdc)	98%-98,6%
MPPT Accuracy	>99,9%

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