

Rating (kVA)	20	30	50	100	150	200	250	350	500
Nominal power (kW)	20	30	50	100	150	200	250	350	500
Max PV power (kWp)	24	35	60	120	180	240	295	410	580
Dimensions WxHxD (mm)	690x1345x895			800x1900x800		1000x2100x800		1600x2100x1000	
Weight (kg)	260	271	320	415	500	635	686	1150	1372

Input

Maximum voltage	1000 V								
MPPT range voltage	450 ÷ 820 V								
Maximum current (A)	46	69	115	230	345	460	570	795	1140
Input protection	Isolator PV switch + fuses				Isolator PV switch				

Output

Nominal voltage	300 V 3-phase with integrated transformer								
Frequency	50 ÷ 60 Hz								
Power factor	0.99 Cos Ø depending on grid regulation								
Current harmonics (THD)	< 2 % @ nominal power and sinusoidal voltage								
Output protection	Electronic short-circuit protection - fuses - contactor								
Maximum efficiency (%)	>96.76	>97.21	>96.97	>97.37	>97.67	>97.73	>97.79	>97.95	>98.08
European maximum efficiency (%)	>94.77	>95.86	>96.01	>96.60	>97.03	>97.18	>97.17	>97.45	>97.69
Loss under normal operation (Wh)	650	850	1500	2600	3500	4500	5500	8200	12000
Nominal power (BTU)	2200	2900	5100	8800	12000	15300	18700	27900	40900
Max PV power recommended (kWp)	24	35	60	120	180	240	295	410	580

Connectivity and function extensions

Front panel	LCD display, mimic LED panel and keyboard								
Remote communication	Modbus RS485								

System

Protection degree	IP20								
Colour	RAL 7035								
Accessibility	Front access								

Other features**Environmental**

Operating temperature range	-10 ÷ +50 °C								
Storage temperature range	-10 ÷ +70 °C								
Non-condensing relative humidity	<95%								
Altitude	< 1000 m above sea level								
Audible noise at 1 m (dBA)	<68								

Standards and certifications

Quality assurance, environment, health and safety	ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007								
Safety	IEC 62103 - EN 50178								
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4								
Protection degree	IEC EN 60529								
Marking	CE								