

Rating (kVA)	20	30	50	100
Nominal power (kW)	20	30	50	100
Max PV power (kWp)	24	35	60	120
Dimensions WxHxD (mm)	690x1345x895			800x1900x800
Weight (kg)	475	486	540	905

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

Output				
Nominal voltage	400 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 (%)	>94.12	>95.51	>95.79	>96.28
European maximum efficiency (%)	>93.20	>94.08	>95.04	>95.79
Loss under normal operation (Wh)	1150	1350	2100	3720
Nominal power (BTU)	3900	4600	7200	12700

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

System				
Protection degree	IP 20			
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			