

	SMART-8KW 3P	SMART-10KW 3P	SMART-12KW 3P
PV String Input			
Max. DC Input Power (W)	10400	13000	15600
Rated P V Input Voltage (V)		550 (160-800)	
Start-Up Voltage (V)		160	
MPPT Voltage Range (V)		200-650	
Full Load MPPT Voltage Range (V)		350-650	
Max. DC Input Current(A)	13+13		26+13
Max. DC Short Circuit Current(A)	17+17		34+17
No. of MPPT Trackers		2	
No. of Strings Per MPPT Tracker	1+1		2+1
AC Output			
Rated A C Output Power (W)	8000	10000	12000
Max AC Output Power (W)	8800	11000	13200
AC Output Rated Current (A)	12.1	16.7	18.2
Max AC Output Current (A)	13.4	18.4	20
Max Output Short Circuit Current (A)		75	
Max. Continuous AC Pass Through(A)		45	
Peak Power (off Grid)		2 times of rated power , 10 S	
Power Factor		0.8 leading - 0.8 lagging	
Output Frequency and Voltage		50/60Hz; 3L/N/PE 220/380 AC, 230/400V AC	
Grid Type		Three Phase	
Total Harmonic Distortion (THDi)		<3% (of nominal power)	
DC Current Injection		<0.5% In	
Battery			
Battery Type		Lead-acid or Lithium-ion	
Battery Voltage Range (V)		40-60	
Max. Charging Current (A)	160	200	240
Max. Discharging Current (A)	160	200	240
External Temperature Sensor		Yes	
Charging Curve		3 Stages / Equalization	
Charging Strategy f or Li-Ion Battery		Self-adaption to BMS	
Efficiency			
Max. Efficiency		97.6%	
Euro Efficiency		97.0%	
MPPT Efficiency		99.0%	
Protection			
Anti-Islanding Protection		Yes	
PV String Input Reverse Polarity		Yes	
Insulation Resistor Detection		Yes	
Residual Current Monitoring Unit		Yes	
Output Over Current Protection		Yes	
Output Shorted Protection		Yes	
Output Over-Voltage Protection		Yes	
Photo-Voltaic Input Lightning		Yes	
Surge Protection		DC Type III / AC Type III	
Over Voltage Category		DC Type II/AC Type III	
Certifications and Standards			
Safety EMC / Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1 , IEC/EN 62109-2	
General Data			
Operating Temperature Range (°C)		-40-60 °C, >45°C De-rating	
Cooling		Smart Cooling	
Noise (dB)		≤50 dB	
Communication to BMS		RS485; CAN	
Monitoring Mode		Wi-Fi+APP	
Weight (kg)		37.5	
Size (W x H x D Mm)		702×422×281 (Excluding Connectors and Brackets)	
Ingress Protection		IP65	
Installation Style		Wall-mounted	
Warranty		5 Years	