

Model	Smart 6kW-SP
PV String Input	
Max. DC Input Power (W)	7800
Rated PV Input Voltage (V)	370 (125-500)
Start-Up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load MPPT Voltage Range (V)	300-425
Max. DC Input Current(A)	13+13
Max. DC Short Circuit Current(A)	22+22
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	1+1
AC Output	
Rated AC Output Power (W)	6000
Max AC Output Power (W)	6600
AC Output Rated Current (A)	27.3
Max AC Output Current (A)	30
Max. Continuous AC Pass Through (A)	40
Peak Power (Off Grid)	2 times of rated power , 10 S
Power Factor	0.8 leading – 0.8 lagging
AC Output Frequency and Voltage	50/60Hz; L / N / PE 220 / 230V AC
Grid Type	Single Phase
Total Harmonic Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% (Rated Current)
Battery	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	135
Max. Discharging Current (A)	135
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy F or Li-Ion Battery	Self-adaption to BMS
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99.90%
Protection	
Anti-Islanding Protection	Yes
PV String Input Reverse Polarity Protection	Yes
Insulation Resistor Detection	Yes
Residual Current Monitoring Unit	Yes
Output Over Current Protection	Yes
Output Shorted Protection	Yes
Surge Protection	DC Type II / A C Type III
Over-Voltage Protection	Yes
Certifications and Standards	
Safety EMC / Standard	IEC/EN 61000-6/2/4, IEC/EN 62109-1, IEC/EN 62109-2
General	
Operating Temperature Range (°C)	-40-60 °C, >45°C De-rating
Cooling	Smart Cooling
Noise (dB)	≤50 dB
Communication With BMS	RS485; CAN
Monitoring Mode	WIFI APP
Weight (kg)	24
Size (W X H X D mm)	580x330x252mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years