

PV INPUT	QS 6000 HVSP	QS 7000 HVSP	QS 7600 HVSP	QS 8000 HVSP	QS 8600 HVSP	QS 9600 HVSP
Max. Input Power (kW)	9.0	10.5	11.4	12.0	12.9	15.0
Max. PV Voltage (V)	600					
MPPT Range (V)	80 ~ 550					
Normal Voltage (V)	360					
Startup Voltage (V)	100					
Max. Input Current (A)	15.5 x 2			15.5 x 3		
Max. Short Current (A)	26.0 x 2			26.0 x 3		
No. of MPP Tracker / No. of PV String	2 / 2			3 / 3		
BATTERY						
Max. Charge / Discharge Power (kW)	9.0 / 9.0	10.5 / 10.3	11.4 / 10.3	11.5 / 10.3	11.5 / 10.3	11.5 / 10.3
Max. Charge / Discharge Current (A)	50					
Battery Normal Voltage (V)	230					
Battery Voltage Range (V)	80 - 495					
Battery Type	Li-ion / Lead- acid					
AC GRID						
Max. Continuous Power (kVA)	6.0	7.0	7.6	8.0	8.6	9.6
Max. Continuous Current (A)	29.0	34.0	37	39	41.5	46.5
Nominal Grid Voltage (V)	211 to 264 @ 240 / 183 to 229 @ 208					
Nominal Grid Frequency (Hz)	60					
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Current THD (%)	<3					
GEN INPUT&AC BACK-UP	QS 6000 HVSP	QS 7000 HVSP	QS 7600 HVSP	QS 8000 HVSP	QS 8600 HVSP	QS 9600 HVSP
Max. Continuous Current (A)	29.0	34.0	37	39	41.5	46.5
Max. Continuous Power (kVA)	6.0	7.0	7.6	8.0	8.6	9.6
Max. Peak Current (A) (10min)	37.5 / 43.3	43.8 / 49.5	47.5 / 49.5	47.9 / 49.5	47.9 / 49.5	47.9 / 49.5
Max. Peak Power (kVA) (10min)	9.0 / 9.0	10.5 / 10.3	11.4 / 10.3	11.5 / 10.3	11.5 / 10.3	11.5 / 10.3
Nominal AC Voltage L-L (V)	240 / 208					
Nominal AC Voltage L-O (V)	120 / 104					
Nominal AC Frequency (Hz)	60					
Switching Time (ms)	<10					
Voltage THD (%)	<3					
EFFICIENCY						
CEC Efficiency (%)	97.0					
Max. Efficiency (%)	97.6					
PV to Bat. Efficiency (%)	98.1					
Bat. between AC Efficiency (%)	96.8					
PROTECTION	QS 6000 HVSP	QS 7000 HVSP	QS 7600 HVSP	QS 8000 HVSP	QS 8600 HVSP	QS 9600 HVSP
PV Reverse Polarity Protection	Yes					
Bat. Reverse Polarity Protection	Yes					
Over Current / Voltage Protection	Yes					
Anti-Islanding Protection	Yes					
AC Short Circuit Protection	Yes					
Residual Current Detection	Yes					
Ground Fault Monitoring	Yes					
Insulation Resister Detection	Yes					
PV Arc Detection	Yes					
Rapid Shut Down	Yes					
Protection Degree	IP65 / NEMA4X					
GENERAL DATA	QS 6000 HVSP	QS 7000 HVSP	QS 7600 HVSP	QS 8000 HVSP	QS 8600 HVSP	QS 9600 HVSP
Dimensions (W x H x D)	400 x 600 x 229 mm / 15.7 x 23.6 x 9.0 in					
Weight	25 kg / 55 lbs					
Topology	Transformerless					
Cooling	Natural Convection			Intelligent Fan		
Relatively Humidity	0 - 100 %					
Operating Temperature Range	- 25 to 60℃ 77 to 140 ℉					
Operating Altitude	æ 4000mæ 13123 ft					
Noise Emission (dB)	< 25			æ 40		
Standby Consumption (W)	æ 10					
Mounting	Wall Bracket					
Communication with RSD	SUNSPEC					
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, 4G					
Certification & Approvals	UL 1741 SA, UL 1741, UL1699B, UL 1998, IEEE1547, IEEE1547A, IEEE1547.1, CSA 22.2 No. 107, Rule21, HECO Rule 14					
EMC	FCC part15 CLASS B					