



SINGLE PHASE STORAGE INVERTER WITH TWO MPPT

Model	SP_HYP-S_03K	SP_HYP-S_06K
PV Input Data		
Max. Recommended PV Power	3.900 Wp	7.800 Wp
Start-up Voltage	80 V	80 V
Max. DC Input Voltage	600 V	600 V
Rated DC Input Voltage	360 V	360 V
MPPT Voltage Range	100 - 550 V	100 - 550 V
No. of MPP Trackers	1	2
No. of Input String per Trackers	1	1/1
Max. DC Input Current	15 A	15/15 A
Max. DC Short-circuit Current	20 A	20/20 A

Output Data (Grid)		
Rated Output Power	3.000 W	6.000 W
Max. Output Power	3.300 W	6.600 W
Max. Apparent Power	3.300 VA	6.600 VA
Max. Input Apparent Power	6.000 ² VA	12.000 ² VA
Max. Charging Power of Battery	3.000 W	6.000 W
Rated Output Voltage	L/N/PE, 220/230/240V	
Rated AC Frequency	50/60 Hz	
Max. Output Current	15 A	28.7 A
Power Factor	0.8 leading ...0.8 lagging	
Max. Total Harmonic Distortion	< 3% @Rated Output Power	
DCI	< 0.5%In	

Output Data (Back-Up)		
UPS Switching Time	< 10ms@6,000	
Max. Apparent Output Power	3.300 VA	8.800 VA
Peak Output Apparent Power	3.900 ³ , 60S VA	7.800 ³ , 60S VA
Voltage Harmonic Distortion		

Battery	
Battery Type	Lithium Battery (with BMS)
Battery Communication Mode	AN / RS485
Battery Voltage Range	85-500 V
Max. Charge/Discharge Current	30/30 A
Rated Current of Built-in Fuse	63 A

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Efficiency		
Max. Efficiency	97.6%	97.6%
European Efficiency	97.0%	97.0%
Max. Battery Charging Conversion Efficiency	96.6%	96.6%
Max. Battery Discharge Conversion Efficiency	96.6%	96.6%

Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection Protection	Integrated
Insulation Resistance Protection	Integrated
DC Switch	Optional
Surge Protection	Integrated
Over-heat Protection	Integrated
Residual Current Protection	Integrated
Islanding Protection	Frequency Shift, Integrated
AC Overvoltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Size (W*H*D)	410*360*120 mm
Weight	13 kg
Protection Degree	IP65
Self-consumption at Night	<1 W
Topology	Transformer less
Ambient Temperature Range	-30 °C ~ 60 °C
Relative Humidity	0~100 %
Operating Altitude	4000 m (derating@ > 3000)
Cooling	Natural Convection
Noise	< 25 dB
Display	OLED & LED
Communication	RS485/WiFi/GPRS/LAN (Optional)
Certifications	IEC62109, IEC62116, VDE4105, VDE0126, AS4777, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000

