

Three Phase Hybrid Inverter



Compact and
lightweight design



Shadow scan function,
optimize power generation
efficiency



High Efficiency up to
98.4%



Reliable Protection



5+5 years warranty



User friendly APP interface

Solavita

Technical Specifications

Model	SV 5KHT-G2	SV 6KHT-G2	SV 8KHT-G2	SV 10KHT-G2	SV 12KHT-G2
PV input					
Max. PV array power	7.5 kWp	9 kWp	12 kWp	15 kWp	18 kWp
Max. input voltage			1000 V		
MPP voltage range/rated input voltage	150 V ~ 950 V/600V			200 V ~ 950 V/600V	
Min. input voltage / start voltage			60 V / 180 V		
No. of independent MPPT trackers / strings per MPPT input			2 / 1		
Max. input current per MPP tracker			20 A		
Max. short-circuit current per MPP tracker			30A		
Battery input					
Battery type	LiFePO4				
Battery voltage range	120 V to 600 V				
Max. charging/ discharging power	5kW	6kW	8kW	10kW	12 kW
Max. charging current / Max discharging current			36A		
Rated. charging current / discharging current			30A		
AC output					
AC voltage range/ Nominal AC voltage	270 V to 480 V / 3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V				
Rated AC grid frequency	50 Hz / 60 Hz				
Rated apparent power	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA
Max. apparent power	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA
Rated grid output Current (@400V)	7.3 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. grid output current(@400V)	8.0A	9.6A	12.8A	16.0A	19.2A
Harmonics THDi (@Nominal power)	< 3 % (of nominal power)				
AC input					
Rated grid voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V				
Rated grid frequency	50Hz / 60Hz				
Max. input apparent power from grid	10 kW	12 kW	16 kW	20 kW	24 kW
Max. input current from grid	14.5 A	17.4 A	23.2 A	29.0 A	34.8 A
EPS output					
Nominal output voltage	3/N/PE, 220 / 380 V; 230 / 400 V; 240 / 415 V				
Nominal output frequency	50 Hz / 60 Hz				
Rated apparent power	5 kVA	6 kVA	8 kVA	10 kVA	12 kVA
Peak output apparent power	2 times of rated power, 10 s				
Rated Current (@400V)	7.3 A	8.7 A	11.6 A	14.5 A	17.4 A
Max. switch time	≤10 ms				
Output THDi (@ Linear load)	<2%				
Efficiency					
MPPT efficiency	≥99.9%				
Euro efficiency / Max. efficiency	97.2%/98.0%	97.5%/98.2%	97.9%/98.4%		
Safety protection					
DC surge protection (Type II, according to EN/IEC 61643-11)	•				
Insulation resistance detection	•				
PV string input reverse polarity protection	•				
Battery input reverse polarity protection	•				
Ground fault protection	•				
Residual current monitoring unit	•				
AC short circuit protection	•				
Anti-islanding protection	•				
General data					
Power factor at rated power / adjustable displacement	1 / 0.8 leading to 0.8 lagging				
Dimensions (W / H / D)	545 / 465 / 205 mm				
Device weight	24.5kg				
Operating temperature range	-25 °C ... +60 °C				
Cooling concept	Natural convection				
Degree of protection (as per IEC 60529)	IP66				
Max. relative humidity	100 %				
Max. operating altitude	4000m (>2000m power derating)				
Features					
User interface	LED & App				
Communication with BMS	CAN				
Communication with meter	RS485				
Internet communication interfaces	Wifi / LAN / 4G				
Digital output (dry contact) / No. of outputs	• / 2				
Digital input (dry contact) / No. of inputs	• / 4				
Integrated power control / export power control	• / •				

● standard features ○ optional features - not available