

SV Series (15-120kVA)/400Vac Hybrid/Off-Grid Solar Inverter System

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Technical Specifications for SV Series Hybrid Solar Inverter(SV1,SV3)

Model	SV1-55P-25kVA	SV1-28P-35kVA	SV3-60P-30kVA	SV3-60P-60kVA	SV3-120P-30kVA	SV3-120P-60kVA	SV3-120P-120kVA
System Output Parameter							
AC Output Capacity (kVA/kW)	25kVA/20kW	35kVA/28kW	30kVA/30kW	60kVA/60kW	30kVA/30kW	60kVA/60kW	120kVA/120kW
Output parameter	220/230/240V(1P+N)/380/400/415Vac (3P+N) with 1% precision and 50Hz(default)/60Hz, with 0.5% precision						
Efficiency of Inverter System	95.5%		95.6%		95.8% (exclude TX)		97.0% (exclude transformer ,TX)
ATS kit for AC bypass (Hybrid)	Not Optional (or external)		Optional, for Grid/Diesel Generator connection				
Battery BUS Rated Voltage	600Vdc BUS			700Vdc Bus			
Switchgear (PDU) Installed	Not Available			Installed all the breakers for PV input, AC input ,Battery and AC output			
Overload Performance	<105%, long term; <110%, 10 minutes; <120%, 1 minutes						
IP/IRMS	3:1 Ratio , Support instantaneous rush load (3 times)						
THD and Un-balance capacity	THD<3% with 100% load;			Support 100% un-balance load between phases			
PV/Solar Input Parameter							
PV Input Voltage, Rated (Vmppt)	250-750Vdc			250-750Vdc (Suggest 30-36V* 20 pieces in series connection)			
PV Input Voltage Range (Voc)	200-900Vdc			200-900Vdc			
Max PV Input Voltage (Voc)	900Vdc			900Vdc			
Max PV Input Current / MPPT Chanel QTY	75A/ MPPT X 2	38A/ MPPT X 1	110A/ MPPT X 1		220A/ MPPT X 2		
Max PV Panel Connected (Wp)	55kWp	28kWp	60kWp		120kWp		
Grid/Diesel Generator Input (option)							
Grid/Gen-set AC Input Voltage Rated	Not available		230V/400Vac (3P+N+PE), 50Hz(default)/60Hz				
Grid/Gen-set AC Input Voltage Range	Not available		170-265V/292-460Vac (3P+N+PE), 45-65Hz				
Efficiency of Grid-ATS (if has ATS option)	Not Optional		ATS of Grid/Diesel Generator is optional ;		Eff. 99.0%		
Battery Connection Parameter							
Battery BUS Rated Voltage	600Vdc (2V X 300 cells)			700Vdc (2V X 350 cells)			
Battery Voltage Adjustment Range (Vbat)	500-700Vdc			600-822Vdc			
Mechanical Feature							
Dimension W*D*H (mm)	460*146*745mm			800*800*2000mm (W*D*H)			
Weight (kg)	44.6kg	387kg	396kg	447kg	758kg	943kg	
Noise (dB)	<65dB			<68dB			
Network Monitoring							
HMI and Indicator	7 Inch Touch Screen(LCD) ,and LED Indicator						
Communication Socket and Protocol	RS485, CAN, LAN, REPO and CAN, Modbus, TCP, Modbus RTU						
Application Environment							
IP Level	IP21 (Wall mounting)			IP20			
Power dispatch (Cooling)	Forced Air Cooling (Smart Fan Speed Control)						
Operation Temperature/ Relative Humidity	-25 °C to 55 °C / 0-95% RH, No Condensation (from 45-55 °C, de-rating 15% capacity per 5 °C)						
Storage Temperature / Relative Humidity	-25 °C to 55 °C/0-95% RH ;			(Exclude battery)			
Altitude (meters)	2000meters; (for 2000-4000 meters, de-rating 4% per 100 meters)						

