Three Phase Hybrid Inverter

SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2



Stock Code: 605117.SH

Support storing energy from diesel generator

Model	SUN-5K-SG01 HP3-EU-AM2	SUN-6K-SG01 HP3-EU-AM2	SUN-8K-SG01 HP3-EU-AM2	SUN-10K-SG01 HP3-EU-AM2	SUN-12K-SG01 HP3-EU-AM2	SUN-15K-SG01 HP3-EU-AM2	SUN-20K-SG01 HP3-EU-AM2	SUN-25K-SG01 HP3-EU-AM2	
Battery Input Data									
Battery Type	Lithium-ion								
Battery Voltage Range (V)	160-700								
Max. Charging Current (A)	30 30 37 50							50	
Max. Discharging Current (A)	30	30 30 37 50						50	
Charging Strategy for Li-ion Battery	Self-adaption to BMS								
Number of Battery Input	1								
PV String Input Data									
Max. DC Input Power (W)	6500	7800	10400	13000	15600	19500	26000	32500	
Max. DC Input Voltage (V)				10	00			I .	
Start-up Voltage (V)	180								
MPPT Voltage Range (V)	150-850								
Rated DC Input Voltage (V)								700	
Max. Operating PV Input Current (A)		20+20				+20	26-	+26	
Max. Input Short-Circuit Current (A)	30+30				39-	+30	39+39		
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/1+1				2/2	2+1	2/2+2		
AC Input/Output Data									
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000	15000	20000	25000	
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200	16500	22000	27500	
Rated AC Input/Output Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29	37.9/36.3	
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9	41.7/39.9	
Max. Three-phase Unbalanced Output Current (A)	13	13	18	22	25	30	35	41.7	
Max. Continuous AC Passthrough (grid to load) (A)	40 80						1		
Peak Power (off-grid) (W)	1.5 times of rated power, 10s								
Power Factor Adjustment Range	0.8 leading to 0.8 lagging								
Rated Input/Output Voltage/Range (V)	220/380V, 230/400V								
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65								
Grid Connection Form	3L+N+PE								
Total Current Harmonic Distortion THDi	<3% (of nominal power)								
DC Injection Current	<0.5% In								
Efficiency	**************************************								
Max. Efficiency	97.6%								
Euro Efficiency	97.0%								
MPPT Efficiency									
Equipment Protection	>99%								
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level								
Surge Protection Level				TYPE II(DC)	TYPE II(AC)				
Interface									
Communication Interface General Data	WIFI, RS485, CAN								
Operating Temperature Range ()	-40 to +60°C, >45°C Derating								
Permissible Ambient Humidity	0-100%								
Permissible Altitude	2000m								
Noise (dB)	≤55								
Ingress Protection(IP) Rating									
Inverter Topology	Non-Isolated								
Over Voltage Category	OVC II(DC), OVC III(AC)								
Cabinet Size (WxHxD mm)	. , , , ,								
Weight (kg)	408×638×237 (Excluding Connectors and Brackets)								
Type of Cooling	Natural Cooling Intelligent Air Cooling								
	Natural Cooling Intelligent Air Cooling 5 Years/10 Years								
Warranty	the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002,								
Grid Regulation		OVE-Richtlinie R25, G99, VDE-AR-N 4105							
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2								

