



Model	SUN-20K-SG01HP3-EU-AM2	SUN-25K-SG01HP3-EU-AM2	SUN-30K-SG01HP3-EU-AM3	SUN-40K-SG01HP3-EU-AM4	SUN-50K-SG01HP3-EU-AM4
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160~700	160~700	160~800	160~800	160~800
Max. Charging Current (A)	37	50	50	50	50
Max. Discharging Current (A)	37	50	50	50	50
Number of Battery input	1	1	2	2	2
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max. Dc input Power (W)	26000	32500	39000	52000	65000
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000
Start-up Voltage (V)	180	180	180	180	180
MPPT Range (V)	150-850	150-850	150-850	150-850	150-850
Full Load Dc Voltage Range (V)	500-850	625-850	360-850	360-850	450-850
Rated Dc Input Voltage (V)	600	600	600	600	600
PV Input Current (A)	26+26	26+26	36+36+36	36+36+36+36	
Max. PV ISC (A)	39+39	39+39	55+55+55	55+55+55+55	
No.of MPP Trackers	2	2	3	4	
No.of Strings per MPP Tracker	2+2	2+2	2+2+2	2+2+2+2	
AC Output Data					
Rated AC Output Active Power (W)	20000	25000	30000	40000	50000
Max. AC Output Active Power (W)	22000	27500	33000	44000	55000
AC Output Rated Current (A)	30.4/29	379/36.3	45.5/43.5	60.7/58	75.8/72.5
Max. AC Output Current (A)	33.4/31.9	41.7/399	50/47.8	66.7/63.8	83.4/79.7
Max. Three-phase Unbalanced Output Current (A)	35	41.7	60	70	83.3
Max. Continuous AC Passthrough (A)	80	80	200	200	200
Peak Power (Off Grid)	1.5 time of rated power, 10 S				
Generator Input/Smart Load /Ac Couple Current (A)	30.4/80/30.4	379/80/379	45.5/200/45.5	60.7/2000/60.7	75.8/200/75.8
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz;3L/N/PE 220/380,230/400Vac				
Grid Type	Three Phase				
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)				
DC Current Injection	<0.5% In				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	99.90%				
Protection					
Integrated	Anti-islanding Protection, Pv String Input Reverse Polarity Protection,insulation Resistor Detection, Residual current Monitoring Unit Output Over Current Protection,Output Shorted Protection, Surge Protection, Arc Fault Circuit Interruption (AFCI optional)				
Over Voltage Category	DC Type II/AC Type I				
certifications and Standards					
Grid Regulation	IEC 61727,IEC 62116, CE1 0-21,EN 50549, NRS 097, RD 140, UNE 217002, 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				
General Data					
Operating Temperature Range (iæ)	-40~60°C,>45°C Derating				
Cooling	Smart Cooling				
Noise (dB)	≤55dB	≤55dB	≤65dB	≤65dB	≤65dB
Communication with BMS	Can	Can	Can	Can	Can
Weight (kg)	30.5	30.5	80	80	80
Cabinet Size (W*H*D mm)	408*638*237		527*894*294		
Protection Degree	Ip65				
Installation Style	Wall-mounted				
Warranty	5 Years(10 Years Optional)				
Battery Model	YY512100HVA		YY512200HVA		YY512300HVA
Energy	51.2kwh		102.4kwh		153.6KWH
Capacity	100Ah		200Ah		300Ah
Nominal Voltage	512V		512V		512V
Float Voltage	584V		584V		584V
Equalization Voltage	560V		560V		560V
Discharge Cutting Voltage	448V		448V		448V
Max.Charge& Discharge Current	100A		100A		100A
Max.C Rating	1C		1C		1C
Dimension	600*650*2100mm		1170*430*195mm		1600*430*195mm
Net Weight	530kg		1080kg		1650kg
Communication Ports	CAN/RS485/RS232				
ChargingTemp Range	0~55°C				
Discharging Temp Range	-10~55°C				
Parallel	Support				
Cycle Lifes	≥6000 cycles@80%DOD/0.5C/25°C				
Warranty	5 years				
Certifications	CE,UN38.3,MSDS				
Function	WIFI				

Product features

High-voltage Efficiency

- Supports high-voltage DC output(e.g.,200V~600V), reducing transmission loss and improving system efficiency by 5%~10%.

High Power Density

- Delivers 20KWh~100KWh perrack, maximizing space utilization.

Enterprise Management

- Compatible with SNMP/Modbus for EMS integration and remote monitoring

Industrialintegration

- 19-inch rack standard,scalable parallel connection for data centers or commercial use

Advanced safety

- Multi-layer BMS protection (over-voltage/current/isolation)

Easy deployment

- Integrated design, waterproof for outdoor use