

Three Phase Hybrid Inverter

SUN-10K-SG01HP3-AU-DM2



Efficient

- High voltage battery, higher efficiency



Intelligent

- 6 time periods for battery charging/discharging



Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs in parallel for On/Off-Grid operation; supports multiple batteries in parallel



Reliable

- Max. charging/discharging current of 37A
- Support storing energy from diesel generator
- 100% unbalanced output

Model		SUN-10K-SG01HP3-AU-DM2		
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-700			
Max. Charging/Discharging Current (A)	37			
Rated Battery power (A)	10000			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	20000			
Max. PV Input Power (W)	16000			
Max. PV Input Voltage (V)	1000			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-850			
Full Load MPPT Voltage Range (V)	362-850			
Rated PV Input Voltage (V)	600			
Max. Operating PV Input Current (A)	18+18			
Max. Input Short-Circuit Current (A)	27+27			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	10000			
Max. AC Input/Output Apparent Power (VA)	10000			
Rated AC Input/Output Current (A)	14.5			
Max. AC Input/Output Current (A)	14.5			
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	230/400V	240/415V	0.85Un-1.1Un	3L+N+PE
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Generator Data				
Nominal Input Voltage (V)	230/400V 240/415V			
Rated Input Current (A)	35			
Power Factor	0.8 leading-0.8 lagging			
Frequency	50Hz			
Backup Data				
Nominal Output Voltage (V)	230/400V 240/415V			
Rated Output Current (A)	14.5			
Rated Apparent Power (VA)	10000			
Power Factor	0.8 leading-0.8 lagging			
Frequency	50Hz			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection(Active Frequency shift), DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD+LED			
Communication Interface	RS485, RS232, CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	≤ 45			
Ingress Protection(IP) Rating	IP 65			
Protection Level	Class I			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	376×470×244.5 (Excluding Connectors and Brackets)			
Weight (kg)	24			
Type of Cooling	Natural Cooling			
Warranty	10 Years			
Grid Regulation	AS/NZS 4777.2			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			