



SUN-10/12/15/20K-H3

- ⚙ Up to 20A PV input current
- ⚙ 10ms UPS-level backup switching
- ⚙ Compatible with diesel generators and EV chargers
- 🛡 IP66 protection for outdoor installation
- 🕒 Support up to 3 units in parallel for off-grid operation

Specification

Model	SUN-10K-H3	SUN-12K-H3	SUN-15K-H3	SUN-20K-H3
PV input				
Max. Input Power(W)	20000	24000	30000	40000
Max. DC Input Voltage(V)	1000			
Rated DC Input Voltage(V)	600			
MPPT Voltage Range(V)	160-850			
Number of MPP Trackers	3	4	4	4
Max.Input Current(A)	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Battery				
Battery Type	Lithium battery/Lead-acid battery			
Battery Communication Mode	CAN			
Battery Voltage Range (V)	40-60			
Max. Charge/Discharge Current(A)	215	140/140	160/160	215/215
Output(Grid)				
Rated Output Power(W)**	10000	12000	15000	20000
Max. Output Apparent Power (W)	11000	13200	16500	22000
Max. Input Apparent Power(VA)	15000	18000	22500	30000
Rated Output Voltage(V)**	3L/N/PE , 380/400V			
Rated AC Frequency (Hz)	50/60			
Power Factor	>0.99 (0.8 leading ...0.8 lagging)			
Max.Total Harmonic Distortion	<3%@Rated Output Power			
Efficiency				
Max. Efficiency	97.60%			
European Efficiency	97.00%			
Max.Charging and Discharging Efficiency	95.00%			
Equipment Protection				
Integrated	PV Reverse Polarity Protection, Insulation Resistance Protection, DC Switch, Surge Protection, Over-temperature Protection, Residual Current Protection, Islanding Protection, AC Over-voltage Protection, Overload Protection, AC Short-circuit Protection			
General Data				
Dimension (mm)	782*572*219			
Weight (kg)	38			
Protection Degree	IP66			
Topology(Solar/Battery)	Transformerless / High-frequency isolation			
Operating Temperature Range (°C)	-25~60(>45°C derating)			
Relative Humidity (%)	0-100			
Operating Altitude(m)	3000			
Type of Cooling	Intelligent Air Cooling			
Noise (dB)	<50			
Display	LCD			
Communication	RS485/LAN/Bluetooth/WiFi,4G(Optional)			