



SUN-15~33KH-H3

- Max. Efficiency up to 98.2%
- Fast and easy data checking and commissioning via App or OLED display
- Up to 110% phase unbalanced output on both on-grid and backup outputs
- 200-800V Wide Battery Range for Greater Self-Sufficiency
- Uninterruptible power supply, switch to off-grid mode within 10ms

Model	SUN-15K-H3		SUN-20K-H3		SUN-25K-H3		SUN-30K-H3		SUN-33K-H3	
Battery										
Battery Communication Mode						CAN / RS485				
Battery Voltage Range (V)						200-800				
Max. Charge/Discharge Current (A)						50/50				
Rated Current of Built-in Fuse (A)						125				
PV String Input Data										
Max. Input Power (W)	22,500		30,000		37,500		45,000		49,500	
Start-up Voltage (V)						190				
Max. PV Input Voltage (V)						1000				
MPPT Voltage Range (V)						200-850				
No. of MPP Trackers						2				
Number of DC Inputs per MPPT						2				
Max. Operating PV Input Current (A)						32/32				
Max. Input Short-Circuit Current (A)						40/40				
Output (Back-up)										
Rated Output Power (W)	15,000		20,000		25,000		30,000		33,000	
Max. Output Power (W)	16,500		22,000		27,500		33,000		36,300	
Back-up Output Rated Apparent Power (VA)	15,000		20,000		25,000		30,000		33,000	
Max. Apparent Power (VA)	16,500		22,000		27,500		33,000		36,300	
Back-up output rated current (A)	22		29		36		44		48	
Max. Output Current (A)	25		33		42		50		55	
UPS switching time (ms)						<10				
THDi @ Rated Power						<3%				
Output(Grid)										
Rated Output Power (W)	15,000		20,000		25,000		30,000		33,000	
Max. Output Power (W)	16,500		22,000		27,500		33,000		36,300	
Rated AC Output Current (A)	21.7		29		36.2		43.5		48	
Max. AC Output Current (A)	25		33.3		41.7		50		55	
Rated AC Frequency (Hz)						50/60				
Power Factor						0.8 leading...0.8 lagging				
THDi@ Rated Power						<3%				
Efficiency										
Max. Efficiency	98.10%		98.10%		98.20%		98.20%		98.20%	
Euro Efficiency	97.30%		97.30%		97.40%		97.40%		97.40%	
MPPT Efficiency						99.90%				
Equipment Protection										
Integrated	DC Reverse Polarity Protection, Battery input reverse connection protection, Insulation Resistance Detection, Surge Protection, Over-temperature Protection, Residual Current Protection, Anti-islanding protection, AC Over-voltage Protection, Overload protection, AC Short-circuit Protection									
General Data										
Over Voltage Category						PV: II , Main: III				
Dimension (mm)						640*490*290				
Weight (kg)						48				
Protection Degree						IP66				
Inverter Topology						Transformerless				
Operating Temperature Range (°C)						-30°C~60°C				
Relative Humidity (%)						0~100				
Operating Altitude(m)						3000				
Type of Cooling						Smart Fan Cooling				
Noise (dB)						<50				
Display						OLED & LED				
Communication						WiFi/LAN (Optional)				