

SUN-15~33KH-3PH

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

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Specification

Model	SUN-15KH-3PH	SUN-20KH-3PH	SUN-25KH-3PH	SUN-30KH-3PH	SUN-33KH-3PH
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 (℃)	-30℃~60℃				
Relative Humidity (%)	0~100				
Operating Altitude(m)	3000				
Type of Cooling	Smart Fan Cooling				
Noise (dB)	<50				
Display	OLED & LED				
Communication	WiFi/LAN (Optional)				