

SUN-5~20KL-3PH

- Max. Efficiency up to 98.2%.
- 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

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Specification

Model	SUN-5KL-3PH	SUN-6KL-3PH	SUN-8KL-3PH	SUN-10KL-3PH	SUN-12KL-3PH	SUN-15KL-3PH	SUN-20KL-3PH
PV input							
Max.Input Power(W)	10000	12000	16000	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	2	2	3	3	4	4	4
Max.Input Current(A)	20/20	20/20	20/20/20	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)	120	140	180	215	140/140	160/160	215/215
Output(Grid)							
Rated Output Power(W)**	5000	6000	8000	10000	12000	15000	20000
Max. Output Apparent Power (W)	5500	6600	8800	11000	13200	16500	22000
Max. Input Apparent Power(VA)	7500	9000	12000	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)	5-6kw 44.5kg/8-10kw 46.5kg/10-20kw 47.5kg						
Protection Degree	IP66						
Topology(Solar/Battery)	Transformerless / High-frequency isolation						
Operating Temperature Range (℃)	-25~60(>45℃ 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)						