

JS12KL

Application: Residential Use



Excellent Performance

- 3 MPPTS: Integrated 3 MPPTS for multiple array orientations
- Maximum battery charge/discharge current of 210A
- Support high power PV module with 30A PV input current



High Flexibility

- Support 40-64V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support smart load/generator/AC Coupling



Safety & Reliability

- IP65: Indoor or outdoor installation
- Built-in DC and AC breaker for safety and reliability
- Integrated arc fault circuit interrupter (AFCI) and rapid shutdown (Optional)



Intelligent Maintenance

- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling
- 4.3"LCD color touchscreen, easy to operate



SPLIT
PHASE
& LV
BATTERY



JS12KL

Efficiency

Max. Efficiency (PV to AC)	98.00%
Max. Efficiency (BAT to AC)	94.50%
CEC. Efficiency	96.50%

Input (PV)

Max.PV Usable Power	15KW
Max. PV Voltage	600V DC
Start-up Voltage	90V DC
MPPT Operating Voltage Range	70V-540V DC
Max. Input Current Per MPPT	30A/22A/22A
Max Short Current Per MPPT	40A/30A/30A
String Per MPPT	2002/2/2
Nos. of MPPT	3

Input / Output (BAT)

Battery Type	Lithium-ion/Lead-acid
Nominal Battery Voltage	48V
Battery Voltage Range	40V-60V
Max. Charge/Discharge Current	210A/210A
Max. Charge/Discharge Power	10,000W/10,000W

Output (Grid)

Max. AC Output Apparent Power	12,000VA
Max.AC Output Power(PF=1)	12,000W
Max.AC Output Current	57A
Nominal Grid Voltage	120/240V (Split phase) / 208V (2/3 phase)VDC
Nominal Grid Frequency	50Hz/60Hz
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)
Power Factor	> 0.99 @rated power (Adjustable 0.8 LG - 0.8 LD)
THDI	<3% (Rated Power)

Output (Back Up)

Max. AC Output Power (PF=1)	12,000W
Peak Output Apparent Power (1s)	20,000VA
Nominal Output Voltage	120/240V (Split phase) / 208V (2/3 phase)VDC
Nominal Output Frequency	50Hz/60Hz
Transfer Time	<10ms (Typical)
THDV	<3% @100% R Load

Protection

Protection Category	Class I
DC Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC/AC Overvoltage Protection	DC Type II, AC Type II
AC Short Circuit Protection	Yes
DC Reverse Connection	Yes
Surge Arrester	DC Type II, AC Type II
Insulation Resistance Detection	Yes
Leakage Current Protection	Yes
AFCI2.0/RSD Monitoring	Optional

General

Max. Operation Altitude	2000m
Ingress Protection Degree	NEMA 3R
Operating Temperature Range	-25°C~60°C (>45°C derating)
Relative Humidity	0~100%
Cooling Method	Smart Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	16.5*31.1*10.0 inch(420mm*790mm*255mm)
Weight	44Kg/97lb

HMI&COM

Display	4.3 inch Touch LCD
Communication Interface	CAN (for BMS), RS485 (for Meter), RS485, CAN (for parallel), Optional: Wi-Fi/LAN
Warranty	5 Years/10 Years (optional)

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.



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