

CBC 5KTL-RL1

Single Phase Hybrid Inverter (48V)



- Max. Efficiency over 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Oversizing
- Max. PV Input Current 16A, Compatible with High Power Modules



- IP66 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis
Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection



- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Input (PV)		CBC 5KTL-RL1
Max. PV Input Power		7.5kW
Max. PV Input Voltage		600V
Start-up Voltage		100V
Rated Voltage		330V
MPPT Voltage Range		100V~550V
Number of MPP Trackers		2
Max. PV Input Current		16A
Output (AC)		
Rated Output Power		5kVA
Max. Output Power		5.5kVA
Max. Output Current		22.7A
Rated Voltage		230V
Rated Frequency		50Hz / 60Hz
THDi(@Rated Power)		<3%
Power Factor		0.8 leading~0.8 lagging
Output (EPS)		
Max. Output Power		5kVA
Max. Output Current		22.7A
Peak Output Power,Time		7.5kW, 10s
Rated Voltage, Frequency		230V, 50Hz
THDv (@Rated Power)		<3%
Switch Time		<10ms
Battery		
Battery Type		Lithium, Lead-acid
Battery Voltage Range		40V~60V
Max. Charge / Discharge Current		100A
Communication		CAN
Efficiency		
Max. Efficiency		>97.5%
EU Efficiency		>97.2%
Battery Charge/Discharge Efficiency		>95%
Protection		
DC Reverse Polarity Protection / Insulation Resistance Monitoring / Ground Fault Monitoring		Yes
Over Current / Over Voltage Protection		Yes
Battery Soft Start Protection		Yes
AFCI Protection		Optional
Surge Protection		Type II
Communication		
Display		LCD
Communication		RS485 / CAN / WIFI / 4G / LAN / Bluetooth
General Data		
Dimension (W*H*D)		490*395*200 mm
Weight		15kg
Operating Temperature Range		-30C~+60C
Cooling Method		Natural
Protection Degree		IP66
Max. Operating Altitude		4000m
Noise		≤25dB
Relative Humidity		0~100%
Self-consumption		<10W
Topology		High Frequency Insolation (For battery)