

Balcony Storage System



Efficient



Safety



Intelligence



- ▶ Super fast charging
- ▶ Efficient MPPT
- ▶ High efficiency of charging and discharging
- ▶ IP65 high protection design
- ▶ On-grid/Phase separation
- ▶ Smart operation of mobile APP
- ▶ Charging mode output protection
- ▶ Battery undervoltage wake-up (Mains/MPPT wake-up)
- ▶ Excellent load adaptability
- ▶ Adopting DSP digital control technology

Product Specifications

CTECHi

Portabel Energy Battery	
Model	CTSLPK5120
Nominal Capacity	5120Wh
Nominal Voltage	51.2V
Working Voltage Range	43.2-57.6V
Standard Charging&discharging Current	20A(0.2C)
Max. Charging&discharging Current	100A
Battery Type	LiFePO4
Standard Discharge Temperature	-20-60 C
Dimension(WXDxH)	482x440x142.4mm
Weight	42kg
Warranty	5years

Product Specifications

Balcony Storage Inverter		
Rated power		1600VA/1600W
Peak power(W)		3200
Machine architecture		Bidirectional AC/DC inverter Boosting and lowering pressure MPPT
Input/output phase number		Single phase input/Single phase output
Operating mode		Automatic charging Automatic inverter discharge Off grid uninterrupted power supply mode
Output	Number of output lines	Single phase two wire (L, N) + Protective ground wire
	Rated voltage (VAC)	220/230/240
	Output voltage accuracy	±1%
	Output frequency (Hz)	50/60Hz ±0.1%(Settable, automatically detects mains frequency)
	Output wave form	Pure sine wave
	Output distortion (THDV%)	<2%(linear load) <7%(nonlinear load)
	Overload capacity	5 mins@105%-120% rated load 10s@120%-150% rated load 5s@>150% rated load
Overload capacity	Mains charging (AC->battery)	93%;
	Battery discharge (battery->AC)	92%;
	MPPT	99.9%
	PV charging frequency	96%
Energy saving mode		<30W (With output but no load)
Shutdown leakage current (uA)		<100
Mains input	Number of input lines	Single phase two wire (L, N) +Protective ground wire
	Input voltage range(Vac)	Zero fire phase voltage: 184-253
	Input frequency range(Hz)	48-51
	Input power factor	≥0.95
Battery and charging	Rated voltage of battery (V)	48
	Battery type	LiFePO4 16 strings, Ternary lithium14 strings
	Charging control method	Precharging, constant current, constant voltage, uniform charging, float charging, shutdown
	Charging termination voltage (V)	56.8V/Continuing Adjust
	Discharge termination voltage (V)	44V/Continuing Adjust
	Charging current(A)	Max.25A, digitally adjustable, default 10A
	Precharge current(A)	1.5A
Charging control command		Charge termination voltage,Charging current,Charge Enable,Charging determination saturation,Battery malfunction,battery temperature, Charging mode switching
Protection function		Overload protection,over temperature protection,input overvoltage protection,input undervoltage protection,overcharge protection, and over discharge protection
Solar charging	Max. PV input power(W)	800W*2
	Max. PV open circuit voltage(VDC)	100
	PV operating voltage range(VDC)	10-100
	PV input current(A)	PV access MPPT working mode,16A max.

Balcony Storage Inverter

Solar charging	Number of MPPT	2
	PV charging current(A)	0-16A*2
On-grid	Optional function	On-grid power can be set to 0-1600W
Interface	APP	The mobile APP manages and controls the on-grid time and power
	Communication interface	Switch on and off command interface,RS485,CAN
	LCD display screen(Options)	Display input and output voltage, frequency, load percentage, PV voltage and current, operating mode, and machine status
Environmental parameters	Operating temperature range	-20-55°C
	Operating humidity range	0-98% (No condensation)
	Cooling method	natural cooling
	Protection degree	IP65
Structural Shape	Size(MM)	360 × 256 × 130
	Weight(kg)	7.5
Insulation isolation withstand voltage		The battery is insulated with the AC terminal and withstand voltage: 4242VDC Leakage current < 1mA
Safety and electromagnetic compatibility standards		IEC/EN62109-1,IEC/EN62109-2/IEC/EN61000-6-1/-2/-3/-4, IEC/EN61000-3-2/-3/VDE4105