

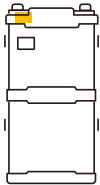


Lithium Battery Pack



Solar Panel

Utilizing sunlight for clean energy charging, which can provide power to household appliances.



12V/24V/48V

Lithium Battery Pack

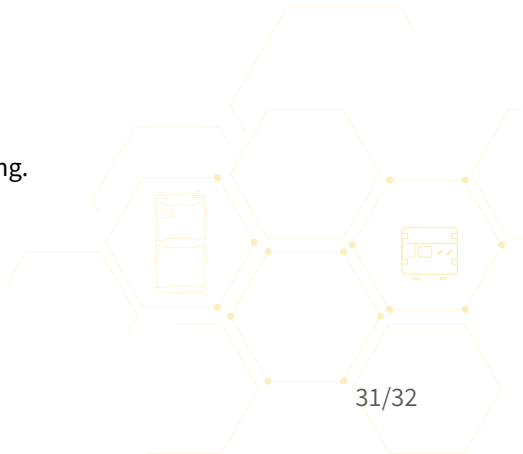
Excess solar energy is stored in batteries during the day and used at night, thus maximizing the utilization rate of solar energy.



Achieving electricity freedom in areas with no or limited power supply.



Using stored energy during blackout to keep appliances running.



Blue Carbon

BCT-V-48-200/250/300

10240wh

12800wh

15360wh

Technical Parameters

Model: BCT-V-48-200/250/300



Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	120A
Maximum Solar Panel Input Current	120A
Overcharge Delay Protection	1000ms

Output

Continuously Use Output Current	120A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

Other

Package Size	668(±2)×605(±2)×678(±2)mm
Certification Standards	UN38.3/CE/MSDS

Blue Carbon

BCT-V-24-200/250/300

5120wh

6400wh

7680wh

Technical Parameters

Model: BCT-V-24-200/250/300



Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	5.12kWh/6.4kWh/7.68kWh

Input

Full Charge Voltage	29.2V
Maximum Charging Voltage	30V
Input Voltage Range	28V-30V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Overcharge Delay Protection	1000ms

Output

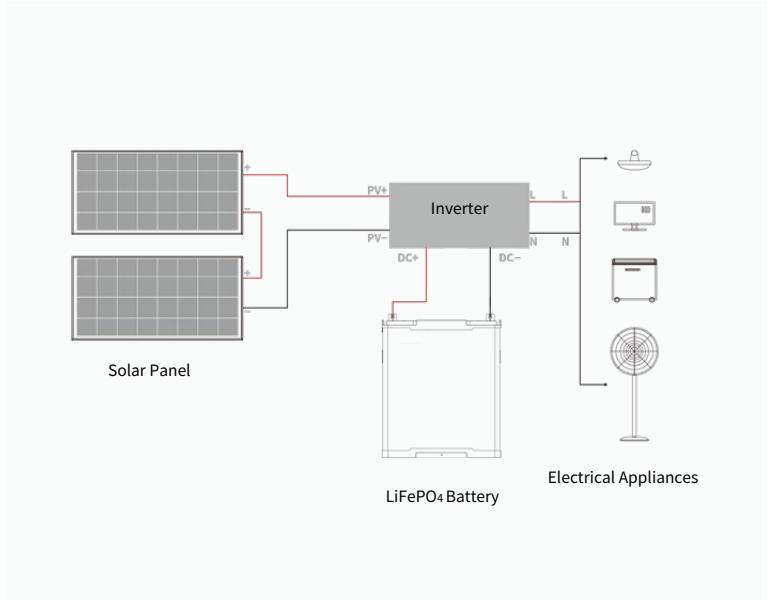
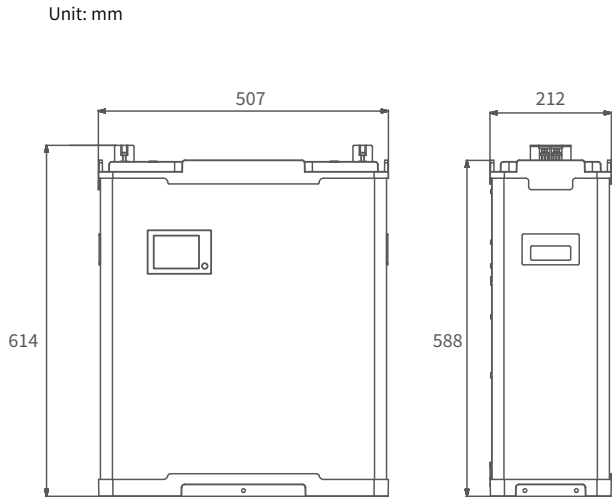
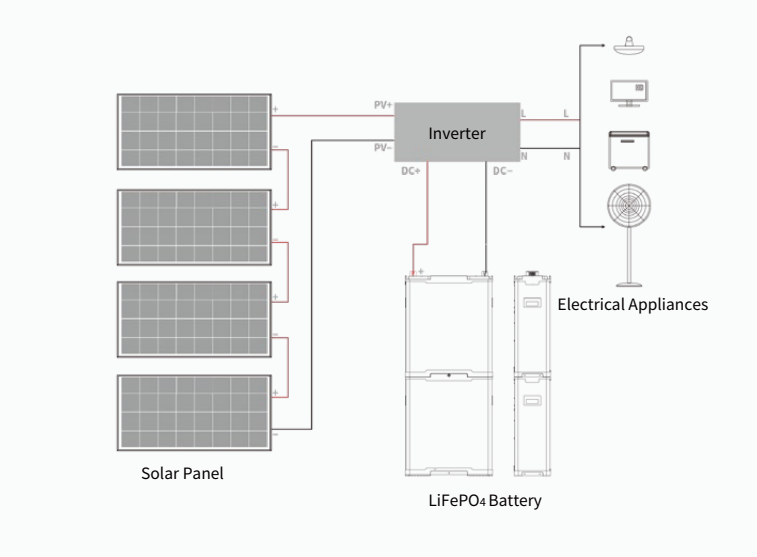
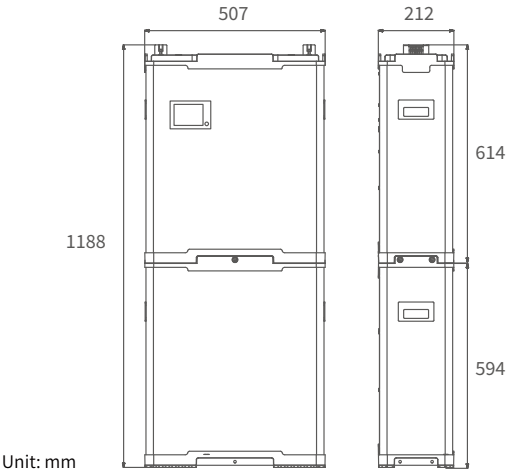
Continuously Use Output Current	120A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

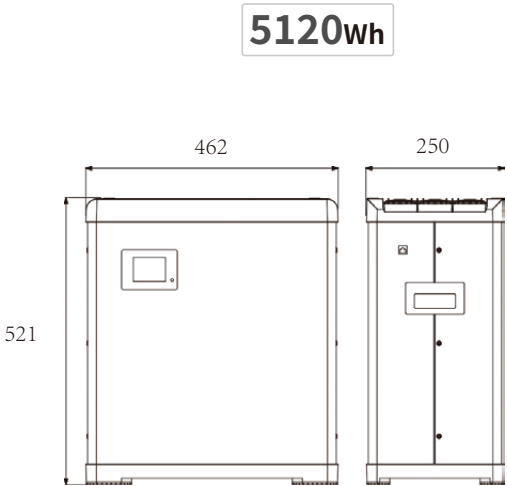
Other

Package Size	668±2×328±2×706±2mm
Certification Standards	UN38.3/CE/MSDS



Blue Carbon

BCT-V-48-100



Unit: mm

Technical Parameters

Model: BCT-V-48-100

Basic Specifications

Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

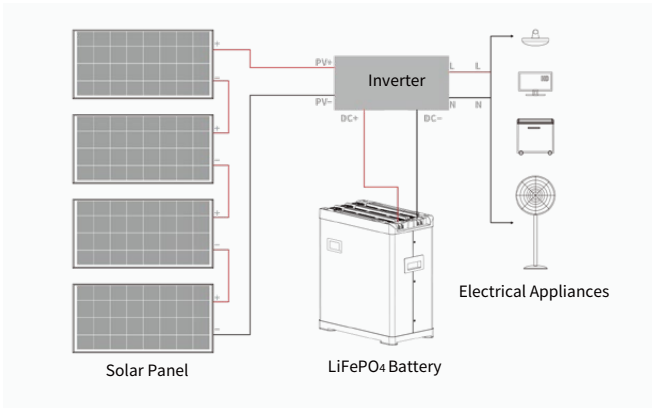
Continuously Use Output Current	80A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	85A
Instant Start Current Time	10s

Other

Package Size	550(±2)×333(±2)×601(±2)mm
Certification Standards	UN38.3/CE/MSDS

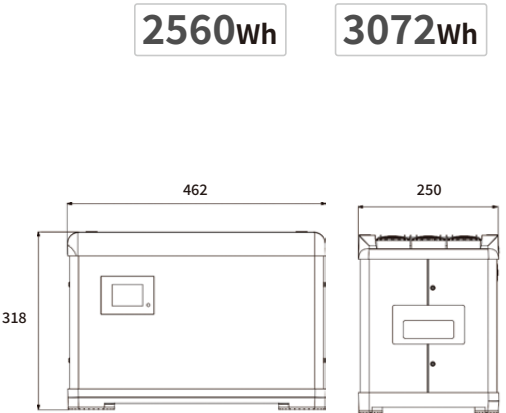
Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)



Blue Carbon

BCT-V-24-100/120



Unit: mm

Technical Parameters

Model: BCT-V-24-100/120

Basic Specifications

Nominal Capacity	100Ah/120Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	2.56kWh/3.07kWh

Input

Full Charge Voltage	29.2V
Maximum Charging Voltage	30V
Input Voltage Range	28V-30V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

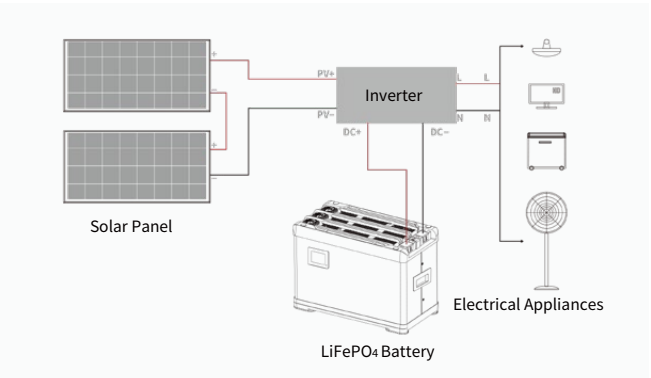
Continuously Use Output Current	80A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	80A
Instant Start Current Time	10s

Other

Package Size	545(±2)×328(±2)×393(±2)mm
Certification Standards	UN38.3/CE/MSDS

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

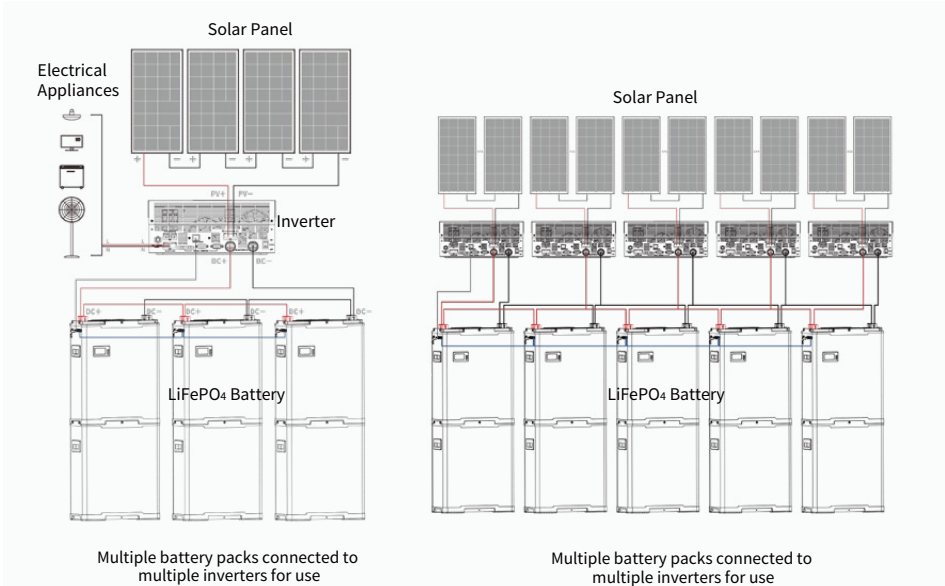
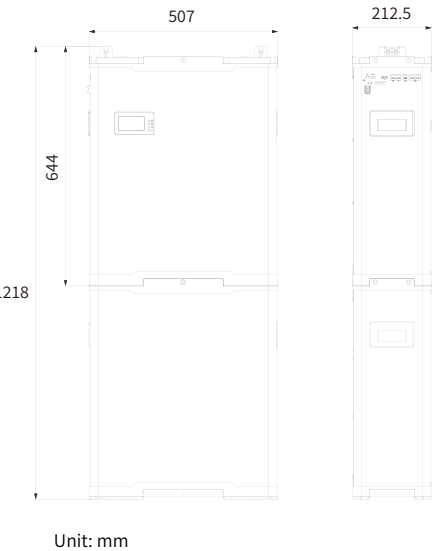




Technical Parameters

Model: SMART-BCT-V-48-200/250/300(P)

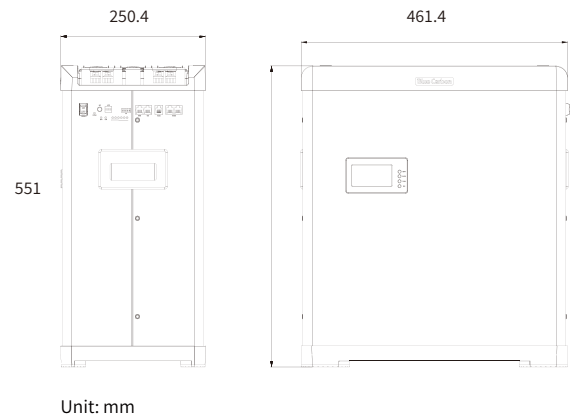
Basic Specifications	
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh
Rated Current	120A
Battery	
Communication Interface	RS485/CAN
Storage Temperature Range	-10°C-30°C
Operating Temperature Range	0°C-50°C
Relative Humidity	5-95% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge(25°C)	<3%/month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)
Other	
Certification Standards	UN38.3/CE/MSDS
Package Size	668(±2)X605(±2)X731(±2)mm
Parallel	Up to 15 pcs

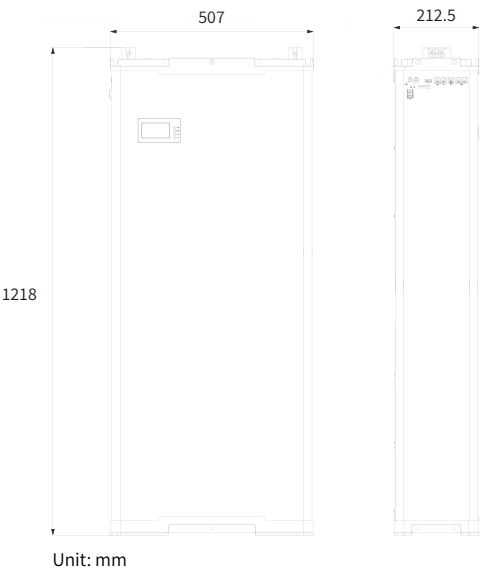


Technical Parameters

Model: SMART-BCT-V-48-100(P)

Basic Specifications	
Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh
Rated Current	80A
Battery	
Communication Interface	RS485/CAN
Storage Temperature Range	-10°C-30°C
Operating Temperature Range	0°C-50°C
Relative Humidity	5-95% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge(25°C)	<3%/month
Depth of Discharge	>80%
C-rate Discharge	≤1C
Cycle Life	> 6000 times (< 0.5C)
Other	
Certification Standards	UN38.3/CE/MSDS
Package Size	550(±2)X333(±2)X631(±2)mm





Technical Parameters

Model: SMART-BCT-VI-48-200/250/300(P)

Basic Specifications

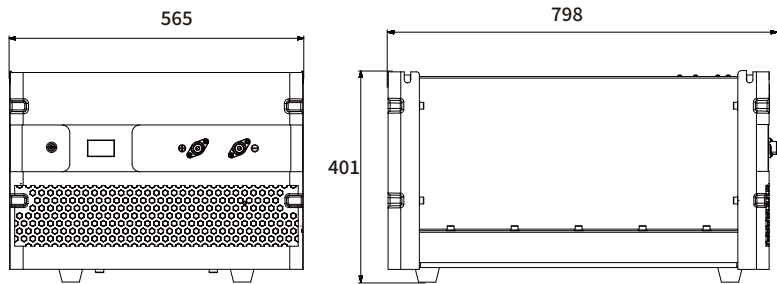
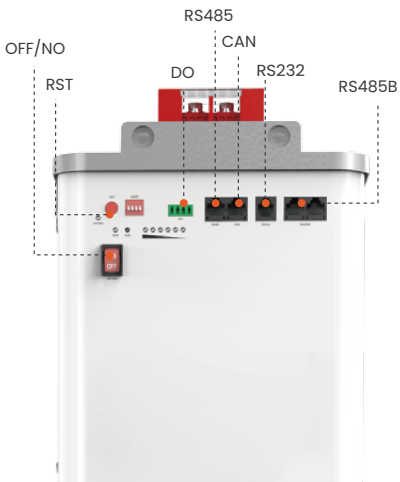
Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh
Rated Current	120A

Battery

Communication Interface	RS485/CAN
Storage Temperature Range	-10°C-30°C
Operating Temperature Range	0°C-50°C
Relative Humidity	5-95% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge(25°C)	<3%/month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)

Other

Certification Standards	UN38.3/CE/MSDS
Parallel	Up to 15 pcs



Technical Parameters

Model: BCT-UU 48-200/250/300

Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh/12.8kWh/15.36kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	120A
Maximum Solar Panel Input Current	120A
Overcharge Delay Protection	1000ms

Output

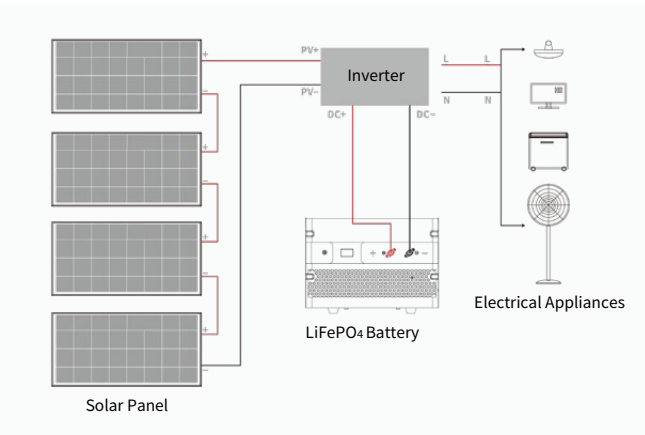
Continuously Use Output Current	120A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	120A

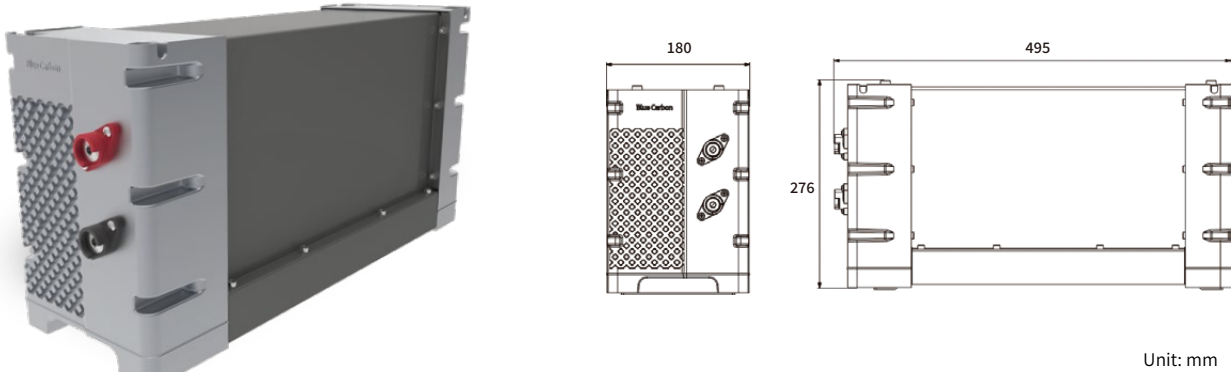
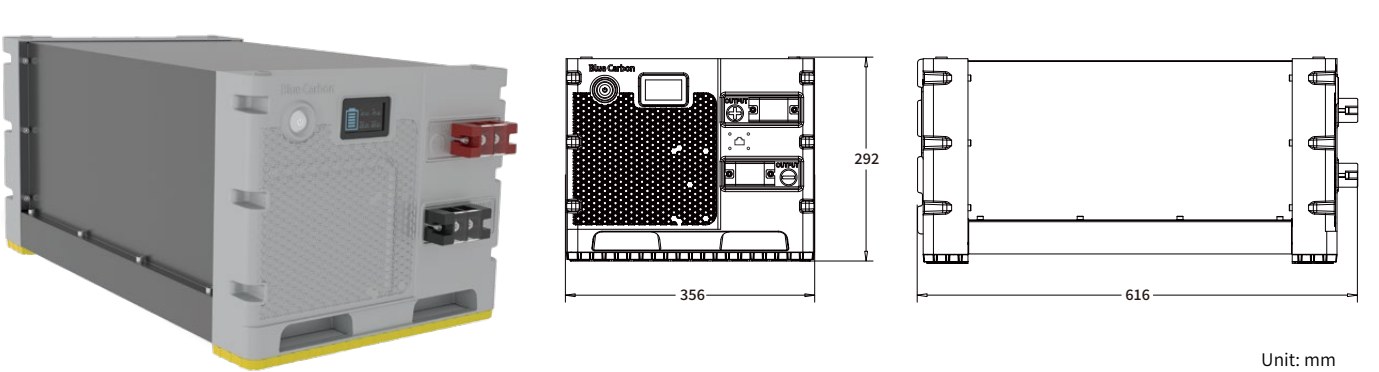
Other

Package Size	903(±2)×671(±2)×451(±2)mm
Certification Standards	UN38.3/CE/MSDS

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)





Technical Parameters

Model: BCT-UU 24-200/250/300

Technical Parameters

Model: BCT-UU 12-200/250/300

Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	24V(25.6V)
Electricity(kWh)	5.12kWh/6.4kWh/7.68kWh

Input

Full Charge Voltage	29.2V
Maximum Charging Voltage	30V
Input Voltage Range	28V-30V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

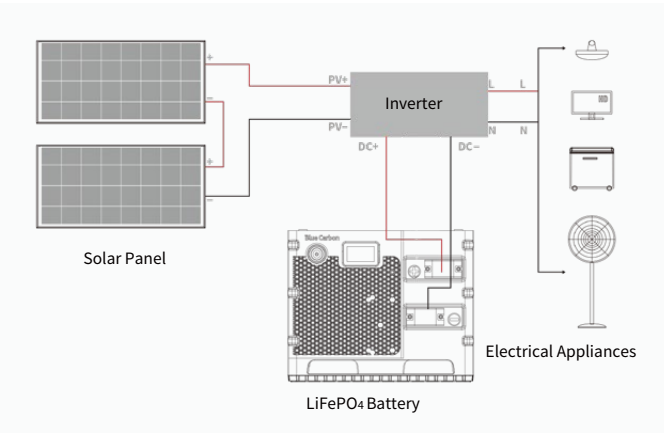
Continuously Use Output Current	80A
Discharge Cut-off Voltage	20V-24V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

Other

Package Size	680(±2)×430(±2)×372(±2)mm
Certification Standards	UN38.3/CE/MSDS

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)



Basic Specifications

Nominal Capacity	200Ah/250Ah/300Ah
Nominal Voltage	12V(12.8V)
Electricity(kWh)	2.56kWh/3.2kWh/3.84kWh

Input

Full Charge Voltage	14.6V
Maximum Charging Voltage	15V
Input Voltage Range	14V-15V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Overcharge Delay Protection	1000ms

Output

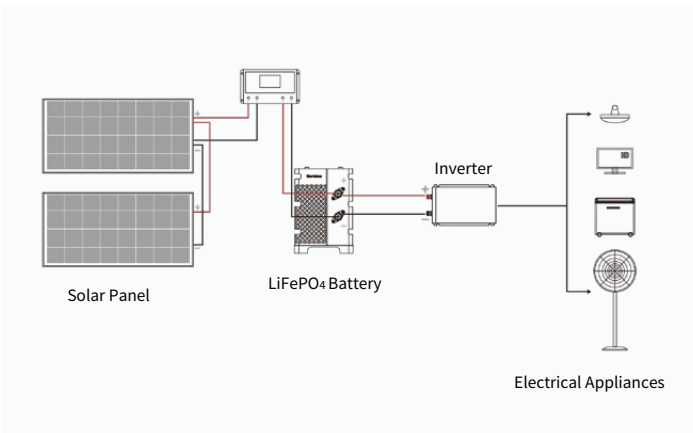
Continuously Use Output Current	100A
Discharge Cut-off Voltage	10V-12V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load

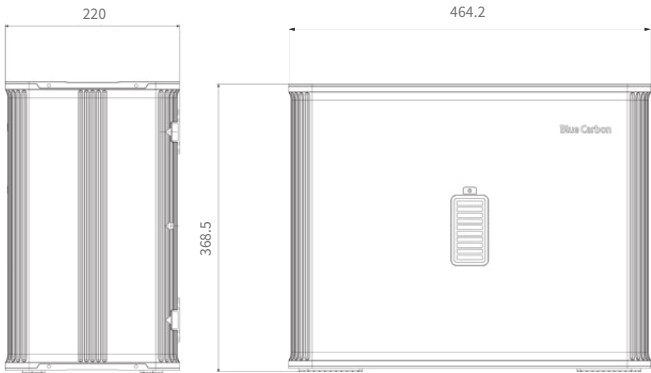
Other

Package Size	575(±2)×260(±2)×335(±2)mm
Certification Standards	UN38.3/CE/MSDS

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	> 6000 times (< 0.5C)



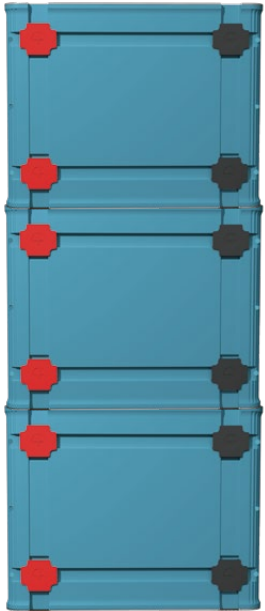


Unit: mm



Switch

Power Indicator Light



Multiple color combinations

Technical Parameters

Model: BCT-T-48-100

Basic Specifications

Nominal Capacity	100Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	5.12kWh

Input

Full Charge Voltage	58.4V
Maximum Charging Voltage	60V
Input Voltage Range	58V-60V
Continuously Use Input Current	80A
Maximum Solar Panel Input Current	80A
Overcharge Delay Protection	1000ms

Output

Continuously Use Output Current	80A
Discharge Cut-off Voltage	44V-46V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	0.3ms
Short Circuit Protection Recovery	Disconnect load

Battery

Cell Type	LiFePO ₄ Battery/LFP
Storage Temperature Range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating Temperature Range	-15°C-60°C
Recommended Temperature Range	10°C-40°C
Storage Humidity	≤75% RH
Atmospheric Pressure	Below the elevation of 5000m
Self-Discharge (25°C)	<3%/Month
Depth of Discharge	>80%
C-rate Discharge	≤1C
Cycle Life	> 6000 times (< 0.5C)

Other

Product Size	464.2(±2) × 368.5(±2) × 220(±2)mm
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This product is not only a safe power source, but also a system that can supply power to various locations and ensure the normal operation of electrical appliances when there is no electricity or blackout.

Unlike generators, lithium iron phosphate battery packs require no maintenance, consume no fuel and produce no noise, keeping your lights on and your appliances running.

