

Small-Power Storage Power Supply BOCO Solutions



BOCO Introduction to Small Energy Storage

BOCO Breakthrough Technology Advantage

- High Reliability

Mature Bi-direction AC/DC converter technology, fully digital control

Less components, High efficiency, High design margin

Pure sinusoid, support UPS function

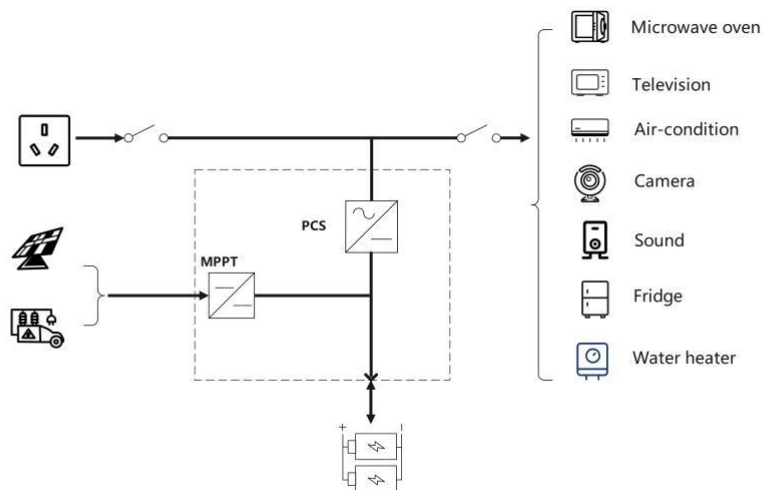
- High Performance

AC output support 200% over load, short circuit protection

Support quick charge function

High efficiency at charge/discharge mode, energy saving

Use of Small Energy Storage Power



Suitable place for Small Energy Storage Power Supply

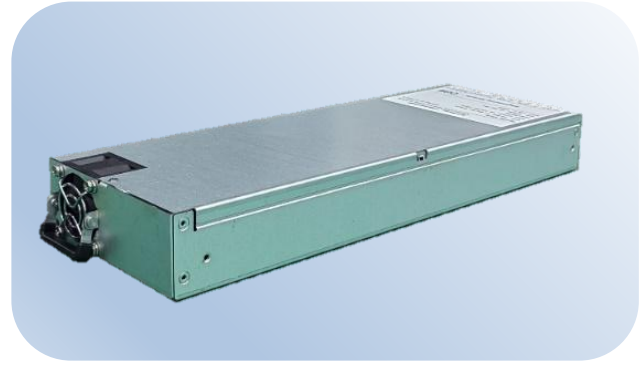
- Portable energy storage, emergency power
- Special purpose vehicle inverter
- Small off-grid systems



B120SJ48-222FT-00 Bi-direction ACDC converter

Feature:

- 95% charge/discharge efficiency
- AC output supports parallel operation
- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection

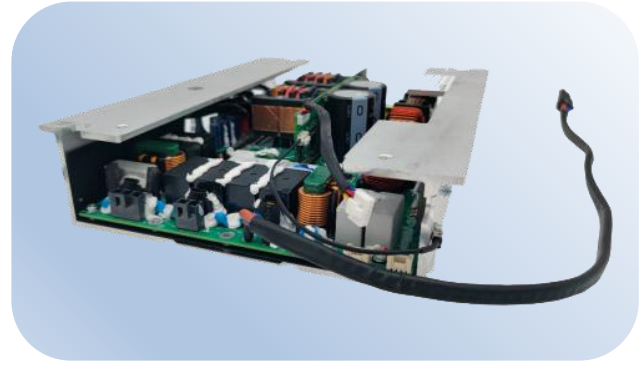


Description		B120SJ48-222FC-00	
Input/Output	Rectifier Mode	Input Voltage Range	90-140VAC
		Input Current	0-15A
		DC output Voltage	42-58VDC
		DC Output Current	38A
	Efficiency	95%	
	Inverter Mode	Input Voltage Range	42-58V
		AC Output Voltage	120VAC
Efficiency		95%	
Mechanical	Dimension (L×W×H)	330x114x41(mm)	
	Weight	2.5Kg	
	Thermal	Fan	
	Input Scket	KF35R-8.25-5P	
	Output Terminal	Terminal	
Environment	Operation Temperature	-10-40°C	
	Storage Temperature	-20-75°C	
	Operation Humidity	0%-90%	
	Altitude	3000m	
Safety/EMC	Safety	UL2743	
	EMI	CLASS A	
Others	Communication	RS485/CAN	
	Control	Digital control	
	Protection	OVP, OCP/SCP, OPP, OTP	

B120SJ32-202FC-00 Bi-direction ACDC converter

Feature:

- 95% charge/discharge efficiency
- AC output supports parallel operation
- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection

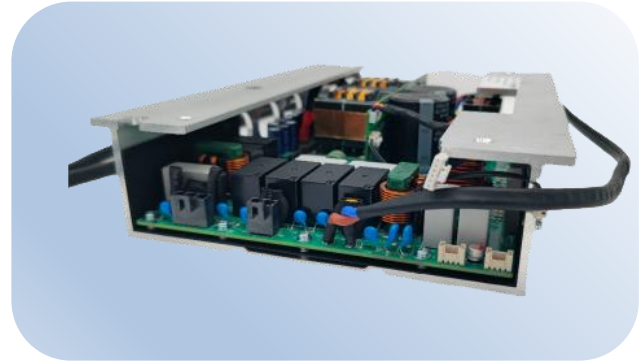


Description		B120SJ32-202FC-00	
Input/Output	Rectifier Mode	Input Voltage Range	90-140VAC
		Input Current	0-15A
		DC output Voltage	27-38VDC
		DC Output Current	50A
	Efficiency	95%	
	Inverter Mode	Input Voltage Range	27-38V
		AC Output Voltage	220VAC
Efficiency		95%	
Mechanical	Dimension (L×W×H)	262x202x59.6(mm)	
	Weight	2.9Kg	
	Thermal	Self-cooling/Fan	
	Input Scket	C6201AV-3P	
	Output Terminal	XT60/C6201AF-2P/C6201AV-2P	
Environment	Operation Temperature	-10-40°C	
	Storage Temperature	-20-75°C	
	Operation Humidity	0%-90%	
	Altitude	3000m	
Safety/EMC	Safety	IEC62368	
	EMI	CLASS B	
Others	Communication	RS485	
	Control	Digital control	
	Protection	OVP, OCP/SCP, OPP, OTP	

B220SJ32-202FC-00 Bi-direction ACDC converter

Feature:

- 95% charge/discharge efficiency
- AC output supports parallel operation
- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection



Description		B220SJ32-202FC-00	
Input/Output	Rectifier Mode	Input Voltage Range	200-240VAC
		Input Current	0-9A
		DC output Voltage	27-38VDC
		DC Output Current	50A
	Efficiency	95%	
	Inverter Mode	Input Voltage Range	27-38V
		AC Output Voltage	220 VAC
Efficiency		95%	
Mechanical	Dimension (L×W×H)	262x202x59.6(mm)	
	Weight	2.9Kg	
	Thermal	Self-cooling/Fan	
	Input Scket	C6201AV-3P	
	Output Terminal	XT60/C6201AF-2P/C6201AV-2P	
Environment	Operation Temperature	-10-40°C	
	Storage Temperature	-20-75°C	
	Operation Humidity	0%-90%	
	Altitude	3000m	
Safety/EMC	Safety	IEC62368	
	EMI	CLASS B	
Others	Communication	RS485	
	Control	Digital control	
	Protection	OVP, OCP/SCP, OPP, OTP	

120BDC48-2000FB-94% Bi-direction ACDC converter

Feature:

- 94% charge/discharge efficiency
- AC output supports parallel operation
- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection



Description		120BDC48-2000FB-94%	
Input/Output	Rectifier Mode	Input Voltage Range	90-140Vac
		Input Current	15A
		DC output Voltage	35-56V
		DC Output Current	35A@48V
	Efficiency	94%	
	Inverter Mode	Input Voltage Range	35-56V
		AC Output Voltage	120Vac
Efficiency		>94%	
Mechanical	Dimension (L×W×H)	262x202x59.6(mm)	
	Weight	1.6Kg	
	Thermal	Fan	
	Input Scket	BA3-05-8.25-03D	
	Output Terminal	Cable	
Environment	Operation Temperature	-10-40°C	
	Storage Temperature	-40-70°C	
	Operation Humidity	10%-90%	
	Altitude	3000m	
Safety/EMC	Safety	UL2743	
	EMI	CLASS B	
Others	Communication	CAN	
	Control	Digital control	
	Protection	OVP, OCP/SCP, OPP, OTP	

B120SJ48-402FT-00 Bi-direction ACDC converter

Feature:

- 95% charge/discharge efficiency
- AC output supports parallel operation
- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection



Description		B120SJ48-402FT-00	
Input/Output	Rectifier Mode	Input Voltage Range	90-140Vac
		Input Current	15A
		DC output Voltage	40-56V
		DC Output Current	33A
		Efficiency	95%
	Inverter Mode	Input Voltage Range	35-56V
		AC Output Voltage	100-130Vac
Efficiency		95%	
Mechanical	Dimension (L×W×H)	289x194x60(mm)	
	Weight	4Kg	
	Thermal	Fan	
	Input Scket	C6201HM-02P	
	Output Terminal	C6201HM-04P/M6	
Environment	Operation Temperature	-10-40°C	
	Storage Temperature	-40-70°C	
	Operation Humidity	10%-90%	
	Altitude	3000m	
Safety/EMC	Safety	UL2743	
	EMI	CLASS B	
Others	Communication	CAN/485	
	Control	Digital control	
	Protection	OVP, OCP/SCP, OPP, OTP	

B230SJ48-362FT Bi-direction ACDC converter

Feature:

- 95% charge/discharge efficiency
- AC output supports parallel operation
- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection

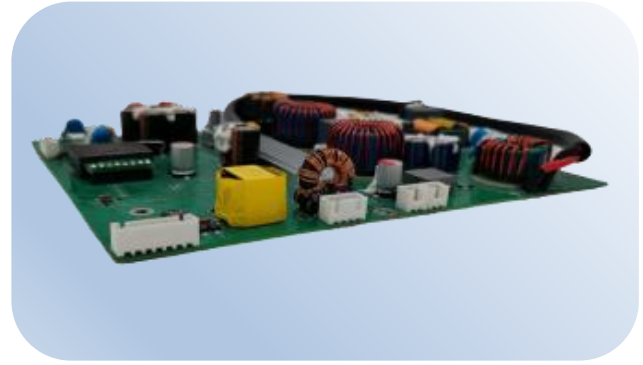


Description		B230SJ48-362FT	
Input/Output	Rectifier Mode	Input Voltage Range	180-264Vac
		Input Current	15A
		DC output Voltage	40-56V
		DC Output Current	40A
	Inverter Mode	Efficiency	95%
		Input Voltage Range	40-56V
		AC Output Voltage	230Vac
Efficiency	95%		
Mechanical	Dimension (L×W×H)	289x194x60(mm)	
	Weight	4Kg	
	Thermal	Fan	
	Input Scket	C6201HM-02P	
	Output Terminal	C6201HM-04P/M6	
Environment	Operation Temperature	-10-40°C	
	Storage Temperature	-40-70°C	
	Operation Humidity	10%-90%	
	Altitude	3000m	
Safety/EMC	Safety	IEC62368-1	
	EMI	Class B	
Others	Communication	CAN/485	
	Control	Digital control	
	Protection	OVP, OCP/SCP, OPP, OTP	

BBK6011-01 MPPT

Feature:

- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection

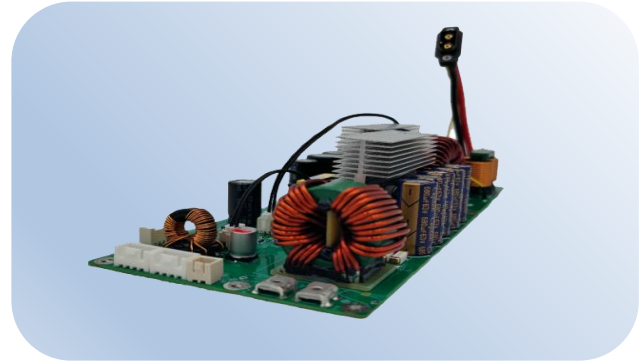


Description		BBK6011-01	
Input/Output	PV Mode	Input Voltage Range	12-60V
		Input Current	10A MAX.
		DC output Voltage	30~58V
		Power	600W MAX.
		Efficiency	96%
Mechanical	Dimension (L×W×H)		182.5x142.25x25(mm)
	Weight		0.5Kg
	Thermal		Fan
	Input Soket		XT30PW-M
	Output Terminal		XT30PW-F
Environment	Operation Temperature		-10-45°C
	Storage Temperature		-30-70°C
	Operation Humidity		10%-90%
	Altitude		3000m
Safety/EMC	EMI		Class B
Others	Communication		CAN/485
	Control		Digital control
	Protection		OVP, OCP/SCP, OPP, OTP

B150BK48-202FC MPPT

Feature:

- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection

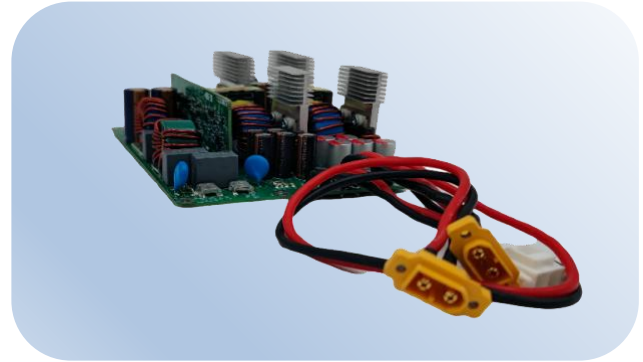


Description		B150BK48-202FC	
Input/Output	PV Mode	Input Voltage Range	12-150V
		Input Current	20A MAX.
		DC output Voltage	40-56V
		Power	2000W MAX.
		Efficiency	96%
Mechanical	Dimension (L×W×H)		225x88x62.5(mm)
	Weight		0.7Kg
	Thermal		Fan
	Input Scket		XT60IE-M
	Output Terminal		M3 welding terminal
Environment	Operation Temperature		-10-45°C
	Storage Temperature		-20-70°C
	Operation Humidity		10%-90%
	Altitude		3000m
Others	Communication		RS485
	Control		Digital
	Protection		OVP, OCP/SCP, OPP, OTP

BBK8402-01FC DC/DC

Feature:

- High power density, small form factor
- Digital control
- OC, SC, OV, OT protection



Description		BBK8402-01FC	
Input/Output	24V Output	Output Voltage	24V
		Output Current	20A
		Voltage Ripple	3%
		Efficiency	93%
	12V Output	Output voltage	13.2V Max.
		Output Current1	10A
		Output Current2	30A
		current Limit	1.12V output1, 10A 2.12V output 2, 30A 3.12V output1 + 12V output 2, 30A
	Efficiency	93%	
Mechanical	Dimension (L×W×H)		155x105x62.5(mm)
	Weight		0.6Kg
	Thermal		Fan
	Input Soket		M3 welding terminal
	Output Terminal		C6201HM-02P/XT60E-M
Environment	Operation Temperature		-10-45°C
	Storage Temperature		-20-75°C
	Operation Humidity		10%-90%
	Altitude		3000m
Safety/EMC	Safety		UL2743
	EMI		CLASS B
Others	Communication		RS485
	Control		Anolog control
	Protection		OVP, OCP/SCP, OPP, OTP



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