

# PIONEERING A GREEN FUTURE IN PNG

## HARNESS THE POWER OF THE SUN

Discover Brian Bell Trade Electrical's exclusive SolarPawa range, offering reliable off-grid solutions that harness solar energy for sustainable living.



**TALK TO OUR SOLAR EXPERTS TODAY**

 **Brian Bell**  
**TRADE ELECTRICAL**

# BATTERY ENERGY STORAGE SYSTEM (BESS)

**Reliable Power. Without the Fuel Bill!**  
**Go smart with sustainable energy storage**

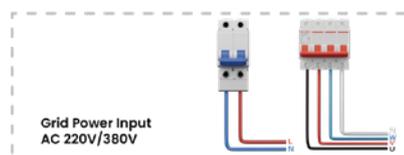
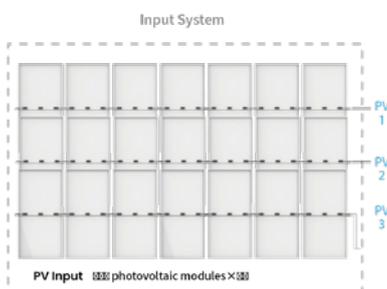
## 380V Three Phase System Solution

### Technical Parameters

Battery Parameter	
Pronto code:	123950
Nominal capacity	900Ah
Nominal voltage	48V
Electricity(kWh)	45kWh
Inverter AC Output	
Pronto code:	123793
Max power (kw)	18kW
Voltage (VAC)	360/380/397/415
Power factor (PF)	1
Frequency	50/60Hz(plus-minus sign here)0.1%
Switch time (ms)	10 (normal mode) / 10 (UPS mode)
Wave form	Pure sine wave
Overload capacity (battery mode)	60s@102%-110%;10s@110%-130% load; 3s@130%-150% load; 0.2s@>150% load
Max. Efficiency (battery mode)	93%@48VDC
Max. Parallel Quantity	3 groups(54kWh)
Photovoltaic/AC Input	
Rated input voltage (VAC)	360/380/397/415;U+V+W+N+PE
Phase voltage range (VAC)	90-280+-3(normal mode);170-280+-3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar charge type	MPPT
Max PV input current/input power	18A/600W x 3
MPPT range@operating voltage per unit (VDC)	120-450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current per unit (A)	80
Max AC charge current per unit (A)	80
Max. charge current per unit (PV + AC)(A)	80

<b>Nominal Capacity</b>	45kWh	90kWh	135kWh
<b>Electricity (KWH)</b>	48V/900Ah	48V/1800Ah	380V/36kW
<b>Inverter Rated Power</b>	135kWh	48V/2700Ah	380V/54kW

### System Connection Display



# BATTERY ENERGY STORAGE SYSTEM (BESS)

**Reliable Power. Without the Fuel Bill!**  
**Go smart with sustainable energy storage**

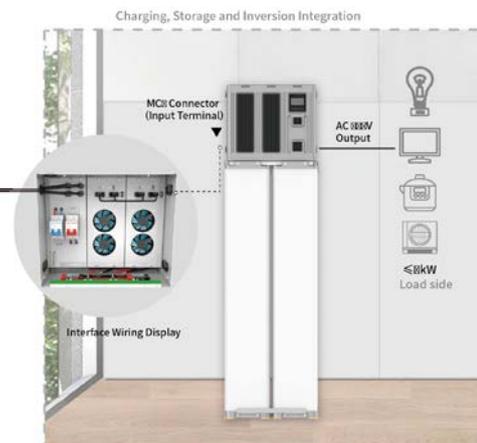
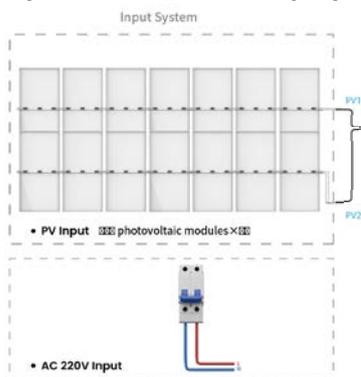
## 220V Single Phase System Solution

### Technical Parameters

Battery Parameter	
Pronto code:	123792
Nominal capacity	600Ah
Nominal voltage	48V
Electricity(kWh)	30kWh
Inverter AC Output	
Pronto code:	
Max power (kw)	12kW
Voltage (VAC)	208/220/230/240
Power factor (PF)	1
Frequency	50/60Hz(plus-minus sign here)0.1%
Switch time (ms)	10(normal mode)/10(UPS mode)
Wave form	Pure sine wave
Overload capacity (battery mode)	60s@102%-110%;10s@110%-130% load;3s@130%-150% load; 0.2s@>150% load
Max. Efficiency (battery mode)	93%@48VDC
Max. Parallel Quantity	4 groups(48kWh)
Photovoltaic/AC Input	
Rated input voltage (VAC)	208/220/230/240;L+N+PE
Phase voltage range (VAC)	90-280+-3(normal mode);170-280+-3(UPS mode)
Frequency (Hz)	50/60(auto adaptive)
Solar charge type	MPPT
Max PV input current/input power	18A/600W x 2
MPPT range@operating voltage per unit (VDC)	120-450
Max PV open circuit voltage per unit (VDC)	500
Max PV charge current per unit (A)	80
Max AC charge current per unit (A)	80
Max. charge current per unit (PV + AC)(A)	80

Battery nominal capacity	45kWh	90kWh	135kWh
--------------------------	-------	-------	--------

### System Connection Display



# LiFePO<sub>4</sub> BATTERY PACK

## SPECIFICATIONS MODEL BCT-V-48-300

<b>BASIC SPECS</b>	Nominal Capacity	300Ah
	Nominal Voltage	48V(51.2V)
	Electricity Why	15:36kWh

<b>INPUT</b>	Full charge Voltage	58.4V
	Maximum Charging Voltage	60V
	Input Voltage Range	58V-60V
	Continuously Use Input Current	100A
	Mamum Solar Panel Input Current	100A
	Rshoot Delay Protection	1000ms

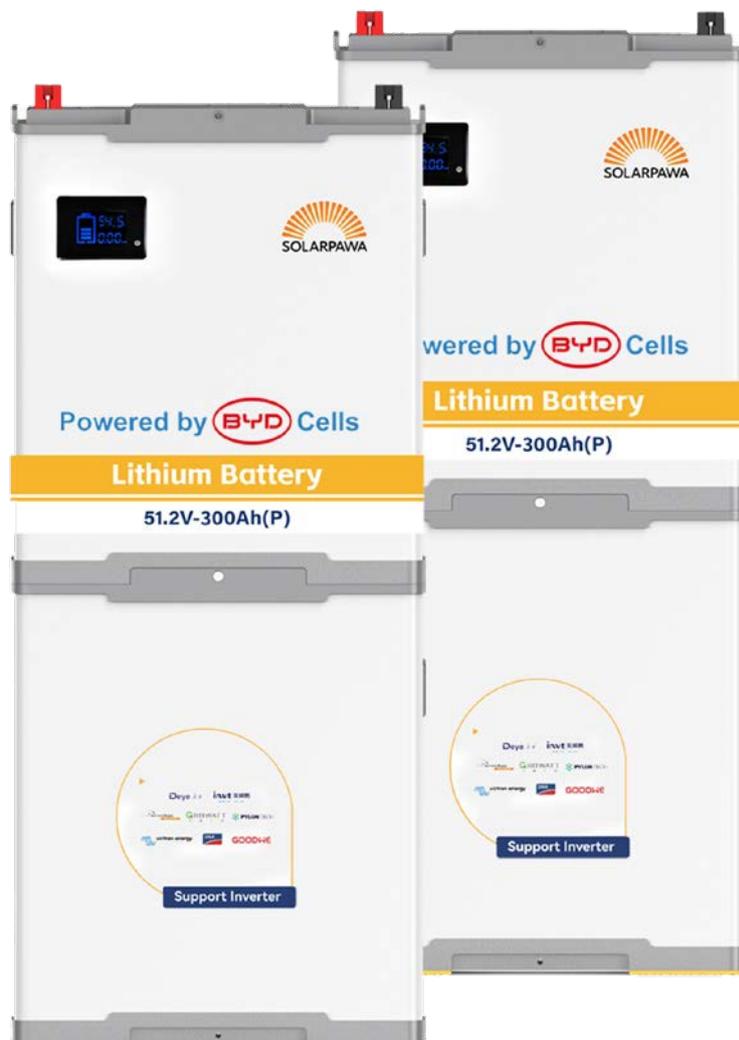
<b>OUTPUT</b>	Continuously Use Output Current	100A
	Discharge Cut-off Voltage	44V-45V
	Over Discharge Delay Protection	1000ms
	Short Circuit Protection Delay	300us
	Short Croat Protection Recovery	Disconnect load
	Instant Start Current	300A
	Instant Start Current Time	105

## SPECIFICATIONS MODEL BCT-V-48-200

<b>BASIC SPECS</b>	Nominal Capacity	200Ah
	Nominal Voltage	48V(51.2V)
	Electricity Why	1024 Wh

<b>INPUT</b>	Full charge Voltage	58.4V
	Maximum Charging Voltage	60V
	Input Voltage Range	58V-60V
	Continuously Use Input Current	100A
	Mamum Solar Panel Input Current	100A
	Rshoot Delay Protection	1000ms

<b>OUTPUT</b>	Continuously Use Output Current	100A
	Discharge Cut-off Voltage	44V-46V
	Over Discharge Delay Protection	1000ms
	Short Circuit Protection Delay	300us
	Short Croat Protection Recovery	Disconnect load
	Instant Start Current	300A
	Instant Start Current Time	105



# SOLAR-STORAGE-APPLICATION INTEGRATED SYSTEM



MODEL BCT-FXC-6KW-H-P	
Model	BCT-SPS 12-80
Storage Capacity	80Ah/12.8V
Standard Capacity	1024Wh
USB Output	Two output 5V/2A, 9V/2A
DC Output	Three output 12V/2A
Car Charger Output	12V/10A
Type-C Output	5V/2A, 9V/2A, /12V/2A
Charging Voltage	14.6-20V
Cut-Off	2.5V single cell
AC Output Power	220V/1.1KW
AC Output Frequency	50Hz; Pure sine wave
Depth of Discharge	>80%
Self-Discharge (25°C)	<3% /month
Working Temperature Range	-20°C-70°C
Recommended Temperature Range	10°C-45°C



**9 INVERTERS IN PARALLEL**



**BUILT-IN 80A SOLAR CHARGER**



**WIDE MPPT RANGE 120-500V**



**DUAL AC OUTPUT**



**WIFI MONITORING**



**LITHIUM BATTERY ACTIVATION**



**FEED-IN TO GRID**



**DETACHABLE DUST COVER**



**SUPPORT LITHIUM/LEAD-ACID BATTERY**

## HYBRID SOLAR INVERTER

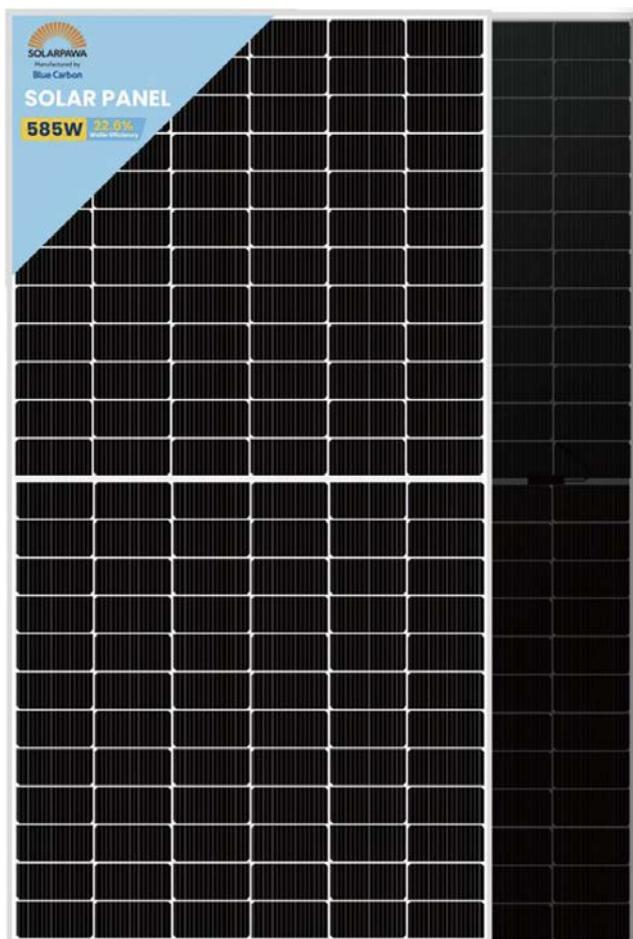
### SPECIFICATIONS MODEL BCT-FXC-6KW-H-P

AC INPUT	Rated Input Voltage (VAC)	208/220/230/240;L+N+PE
	Voltage Range (VAC)	90-280±3(normal mode);170-280±3 (UPS mode)
	Frequency (Hz)	50/60 (Auto Adaptive)

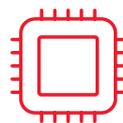
AC OUTPUT	Max Power (kw)	6
	Peak Power (kVA)	10
	Voltage (VAC)	208/22-/230/240
	Power Factor (PF)	1
	Frequency	50.60Hz±0.1%
	Switch Time	10 (normal made) / 10 (UPS mode)
	Wave Form	Pure Sine Wave
	Overload Capacity (Battery Mode)	3s@130%-150%load;0.2s@>150% load; 3s@130%-150%load;0.2s@>150% load



# SOLAR PANEL MON-CRSTALLINE



## PRODUCT CHARACTERISTICS



### Multiple Main Gate Technology

Better light utilization and current collection, effectively improve product power output and reliability.



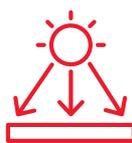
### Better Heat Spot Resistance

By optimizing circuit design and working current, better temperature coefficient and heat spot resistance are obtained.



### Anti-pid Guarantee

The attenuation rate caused by PD phenomenon is minimized through battery production technology optimization and material control.



### Adaptability to Harsh Environments

Third party certification through high salt spray and high ammonia corrosion test, suitable for high temperature and humidity, coastal, desert, lake and other harsh environment.



### Super Mechanical Load

It can carry 5400Pa snow load  
It can bear 2400Pa wind pressure



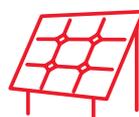
### Excellent Product Materials

Excellent product material and process quality assurance



### Linear Power Warranty

Linear attenuation of 0.55% per year for 25 years



### +3% Positive Tolerance

+3% Positive Tolerance

Wattage Pronto Code	Pronto Code
80W	123425
180W	123954
185W	123426
275W	123427
350W	123428
550W	123429
585W	123907

# SOLAR HOME SYSTEM



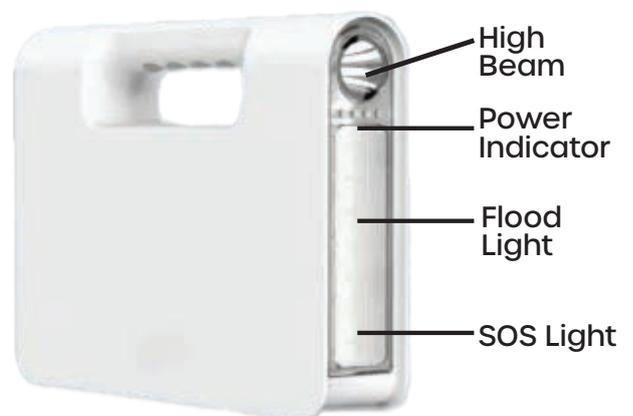
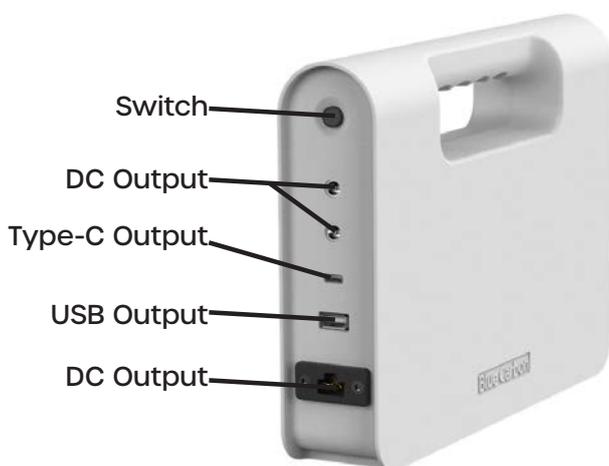
Pronto Code	123784
Solar Panel	3.6V/15W
Open-Circuit Voltage (Ved)	4V
Optimum Operation Voltage (Vmp)	37-4V
Short-Circuit Current (sc)	4A
Optimum Operation Current (mp)	22A
LiFePO. Battery	
Nominal Voltage	3.2V
Electricity	48Wh
DOD	80%
Cycle	>6000 cycles, <0.5C
Output	
USB Output	5V
Type-C Output	5V
DC Bulb Output	32V/10W
Light Time: When the product is fully charged and uses the standard LED external bulb light, 3 lights can provide sustainable lighting for 12 hours 2 lights can provide sustainable lighting for 24 hours and 1 light can provide sustainable lighting for 36 hours.	

Pronto Code	123948
Solar Panel	12V60W
Open-Circuit Voltage (Voc) 16.56V	4V
Optimum Operation Voltage (Vpm) 14.39V	37-4V
Short-Circuit Current (Isc) 4.17A	4A
Optimum Operation Current (pm) 4.18A	22A
Working Efficiency (%) 22	
Nominal Voltage	32V
Electricity (kwh)	500Wh
DOD	80%
Cycle	>6000 cycles, <0.5C
Output	
Car Charger Output	12V10A
USB Output	5V2A
Type-C Output	5V2A
DC Bulb Output	12V2A
DC Home Appliance Output	12V10A
Max Output Power	100W
Input	
PV Input	5-12V
Type-C Input	5-12V 5A
Other	
LED Bulb	10W-3Pcs
Built-in LED	15W
Product Size	236mm-82mm-276mm

# SOLAR HOME SYSTEM



<b>Pronto Code</b>	<b>123946</b>
Solar Panel	5V/15W
<b>LiFePO4 Battery</b>	
Electricity	80W-h
<b>Output</b>	
USB Output	One circuit output 5V/2A
Type-C Output	One circuit output 5V/2A
DC Bulb Output	Two circuits output 3.2V
<b>Lamp</b>	
Built-in lamp	High Beam (Common 9W LED)
	Flood Light (Common 9W LED)
	SOS Light (Common 3W LED)
External lamp	Common 6W LED×2pcs; cable length 3m
Light Time	One external lamp works 13 hrs; Two external lamps work 6 hrs; For the built-in lamp, high beam works 8 hrs, flood light works 8 hrs and SOS light works 26 hrs.



# SOLAR FLOOD LIGHT

Product name	123785
Model	BCT-WW3.0
Solar panel	40W (Mono)
Panel size	357x576x25x25 mm
Battery	3.2V/25(±5)Ah LiFePO4
Light power	1600m
Beam angle	bat wing 150*70"
CRI	Ra70
Color temperature	6500K, 4000K
IP rating	IP65
IK level	IK05
Operating temperature	-40°C-70°C
Working humidity	10%-90%

Product name	123786	123787
Model	BCT-WW4.0	BCT-WW6.0
Solar panel	65W (Monic)	105W (Mono)
Panel size	590x550x30x25 mm	780x680x30x25 mm
Battery	3.2V/45(±5)Ah LiFePO4	3.2V/80(±5)Ah LiFePO4
Light power	2200m	5600 lm



# INTEGRATED SOLAR STREET LIGHT SERIES



BCT-OLF-60W	
Solar Panel	5V/60W (Mono)
Battery	3.2V/40 (5)Ah LiFePO4 Battery
Light Power	3200lm (Common 30W LED)
Installation Height	6-8m
Installation Distance	20-30m
Installation Way	Straight pole installation
Lighting Time	6+X/Intelligent power control, and can use remote control to adjust brightness and working mode.



BCT-OLF-100W	
Solar Panel	5V/100W (Mono)
Battery	3.2V/200 (15)Ah LiFePO4 Battery
Light Power	8000lm (Common 80W LED)
Installation Height	8-10m
Installation Distance	40-50m
Installation Way	Straight pole installation
Lighting Time	6-X/Intelligent power control, and can use remote control to adjust brightness and working mode.



BCT-OLF-140W	
Solar Panel	5V/140W (Mono)
Battery	3.2V/200 (15)Ah LiFePO4 Battery
Light Power	12000lm (Common 80W LED)
Installation Height	10-12m
Installation Distance	40-50m
Installation Way	Straight pole installation
Lighting Time	6-X/Intelligent power control, and can use remote control to adjust brightness and working mode.

# SOLAR HOT WATER SYSTEM

<b>Pronto Code</b>	<b>120084-120086</b>
Inner water tank	SUS304-2B stainless steel (food grade); Thickness:1.2mm - 360 dia
Outer water tank	Stainlesse steel; 201,Thickness:0.4mm; 460mm dia
Bracket	Stainless steel; Thickness 1.5mm, Angle: 30deg.
Heat insulation layer	Imported polyurethane (Bayer, Germany);
Working pressure	0.03KG/M2, testing pressure 0.06 Mpa.
Accessories:	T/P valve 0.7MPA, electrical heater 1.5kw,
Tank size	150L/200L/300L



Includes  
TKDZ Solar Controller

# SOLAR FREEZER

<b>Pronto Code</b>	<b>123547</b>	<b>123548</b>	<b>123549</b>	<b>123550</b>	<b>123551</b>	<b>123552</b>
Model:	BD/BC-108	BD/BC-158	BD/BC-208	BD/BC-308	BD/BC-408	BD/BC-458
Capacity	108L	158L	208L	308L	408L	458L
Refrigerant:	R600a	R600a	R600a	R290a	R290a	R290a

<b>Input Voltage</b>	12/24/240V
<b>Temperature Range</b>	<=-18 degree

<b>Includes:</b>
Digital Temperature Controller
Inner LED light
AC Adapter
With Lock
Inner glass door



# SOLAR DISPLAY COOLER

<b>Pronto Code</b>	<b>123547</b>
Model:	LC-268
Capacity	268L
Input Voltage:	12/24/240V
Temperature Range:	0-10 degree
Refrigerant	R290a
Includes	AC Adapter



# SOLAR WATER PUMP



Performance	
Max Head	45 m
Max Flow	2.7 m <sup>3</sup> /h
Technical Data	
Pump Structure	Surface Pump
Pump Model	SJET2.7-45-D48-550
Pump Inlet & Outlet Dia.	1x1"
Pump Voltage	DC48V
Motor Power	550 W
Max. DC Input Voltage(Voc)	100 V
Recommended Voltage (Voc)	50-100 VDC
Solar Panel Suggestion	4 x 250W
Controller Ambient Temperature	-20 - 60 °C
Ambient Water pH Range	6.5 - 8.0
Ambient Water Temperature	1 - 35 °C



**SCPM4.8-22-D48-370**  
Permanent Magnet Solar Pump

Performance	
Max Head	80 m
Max Flow	3.2m <sup>3</sup> /h
Technical Data	
Pump Specifications	Centrifugal Pump
Pump Outlet Dia.	1"
Pump Dia.	3"
Solar Pumping Controller Model	FL-48
Controller Power	750 W
Max. DC Input Voltage	100 V
Recommended Voltage	50-100VDC
Controller Ambient Temperature	-20-60 °C
Pump Model	3FLD-750
Motor Power	750 W
Pump Enclosure Class	IP68
Ambient Water pH Range	6.5-8.0
Ambient Water Temperature	1-35 °C



Performance	
Max Head	22 m
Max Flow	4.8 m <sup>3</sup> /h
Technical Data	
Pump Structure	Surface Pump
Pump Model	SCPM4.8-22-D48-370
Pump Inlet & Outlet Dia.	1x1"
Pump Voltage	DC48V
Motor Power	550 W
Max. DC Input Voltage(Voc)	100 V
Recommended Voltage (Voc)	50-100 VDC
Solar Panel Suggestion	2 x 300W
Controller Ambient Temperature	-20-60 °C
Ambient Water pH Range	6.5-8.0
Ambient Water Temperature	1-35 °C

# SOLAR BATTERY



Lead Acid VRLA Battery Series  
 Deep Cycle VRLA Battery Series  
 AGM GEL Battery Series



Compliant to: EUROBAT, RoHS, WEEE'd, Reach,  
 Manufactured according to IEC 60896-21/22

# SOLAR ACCESSORIES





**TALK TO OUR  
SOLAR EXPERTS TODAY**

 **Brian Bell**  
**TRADE ELECTRICAL**