



BPC223-01  
BCRT20N00  
POWER GEM PLUS RT  
6kVA & 10kVA BATTERY CABINET  
USER MANUAL

4256-5697 A

## 1. Instructure:

The BPC PowerGem Plus RT 6-10kVA UPS battery pack dimension is W443\*H131\*D585mm. It includes battery connection cables, breaker, terminal, etc, with max. capacity of 20pcs 12V/7Ah or 12V/9Ah batteries inside. The battery connection could be configured to output  $\pm 120V$ , two groups batteries connect in series as BAT+, BATN、BAT - .

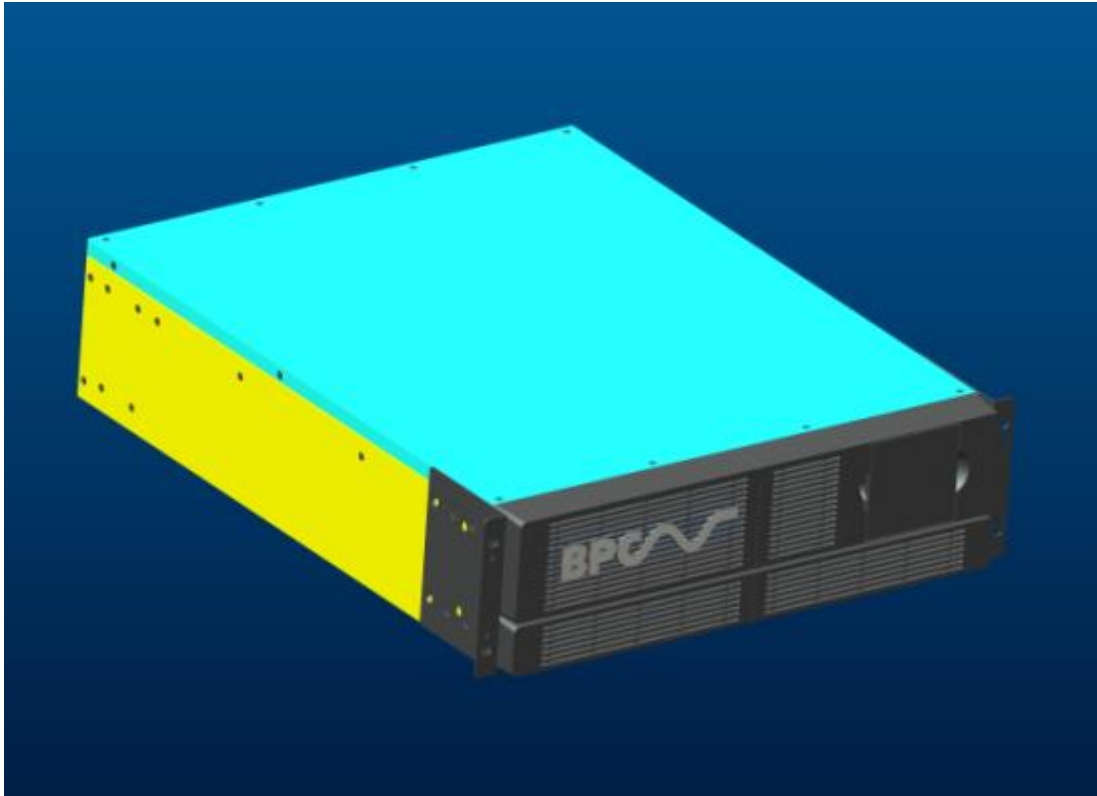


Fig.1 The complete battery pack cabinet

## 2. Assembly

### 2.1 Dismount the cabinet shell

Put the battery pack on a level, take off the panel、remove the battery tray top covers and battery holder for easier battery installation and connection。 as shown in Fig.2 &Fig.3

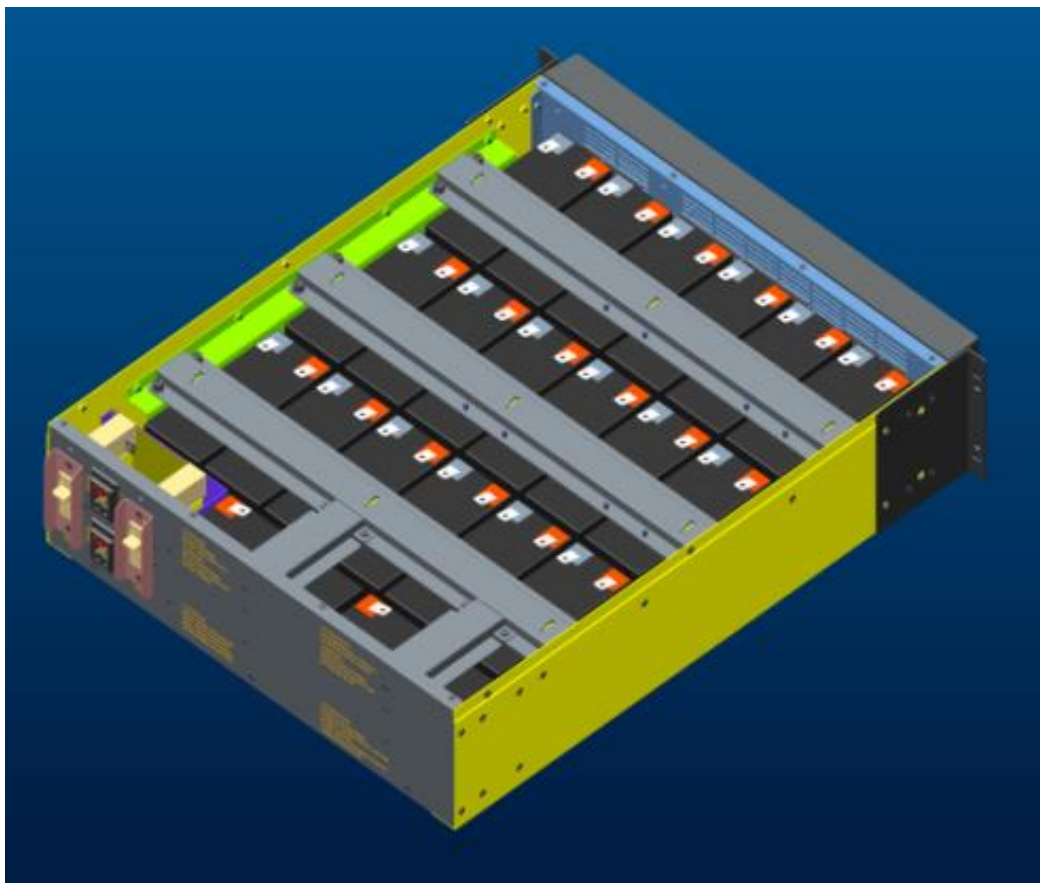


Fig.2

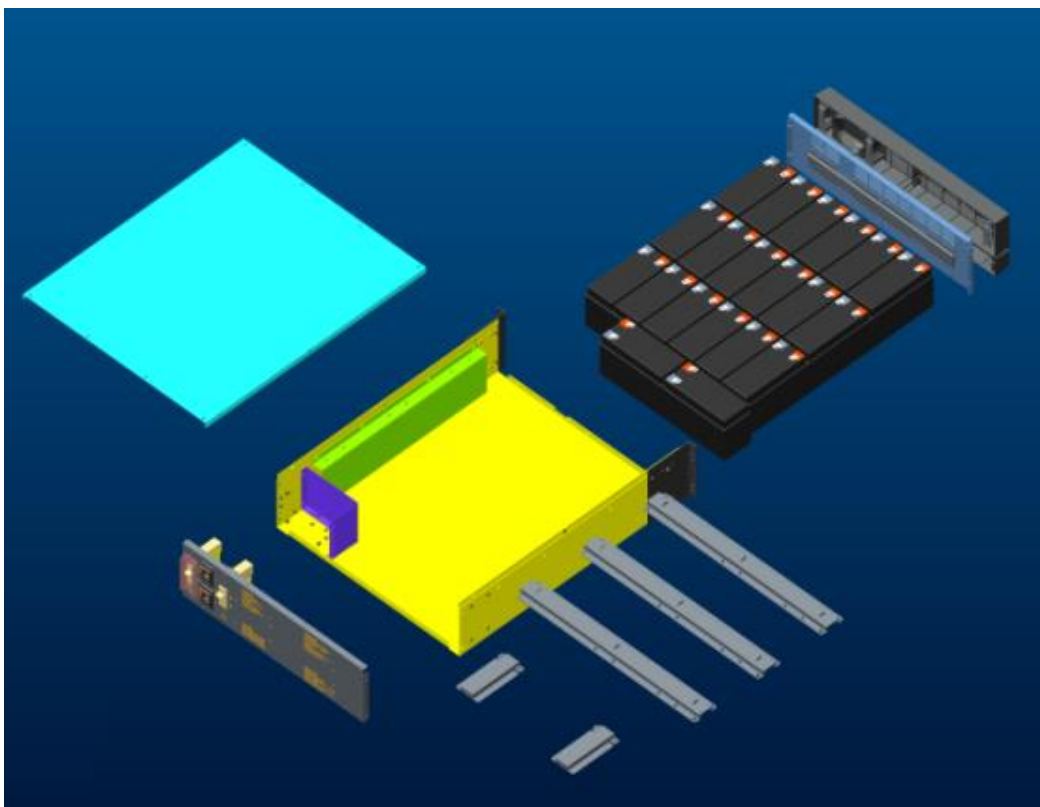


Fig.3

## 2.2 Battery installation and connection

Users need 20pcs batteries, divide into 2 groups. Each group has 10pcs batteries in series, as (BAT+ BATN BAT-) shown below.

**2.2.1** Batteries installation and connection: There have 20pcs batteries, then connect the batteries as shown in below pictures.

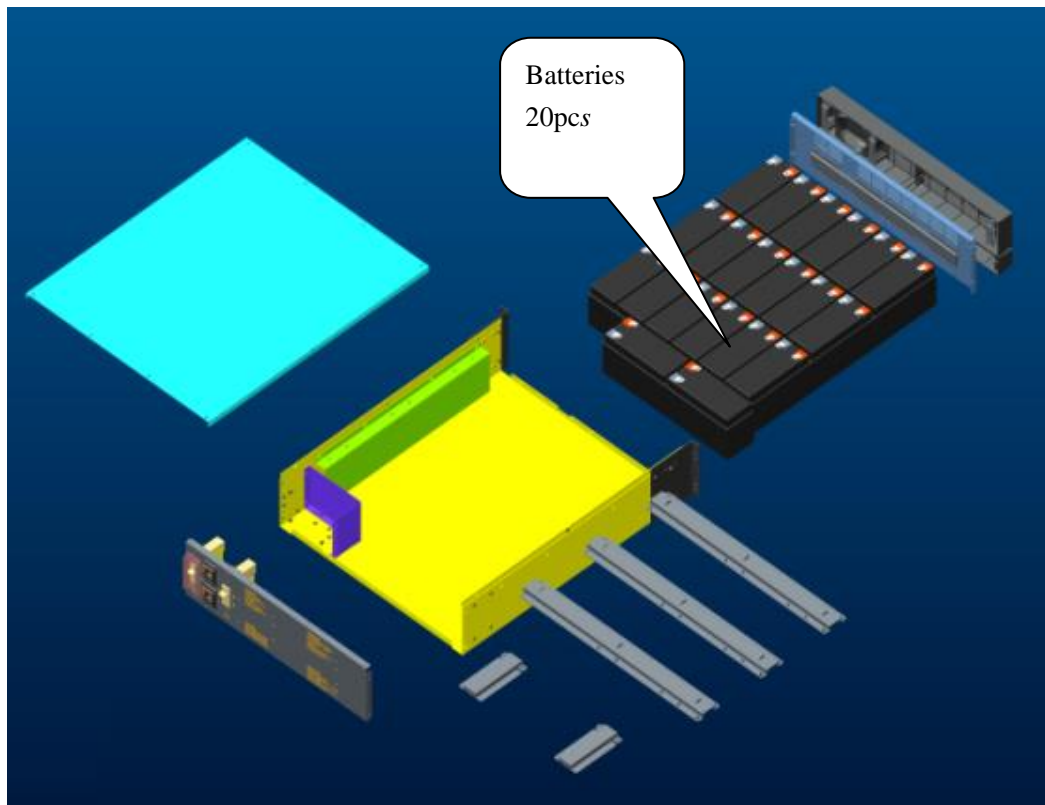


Fig. 4 (20pcs batteries installation)

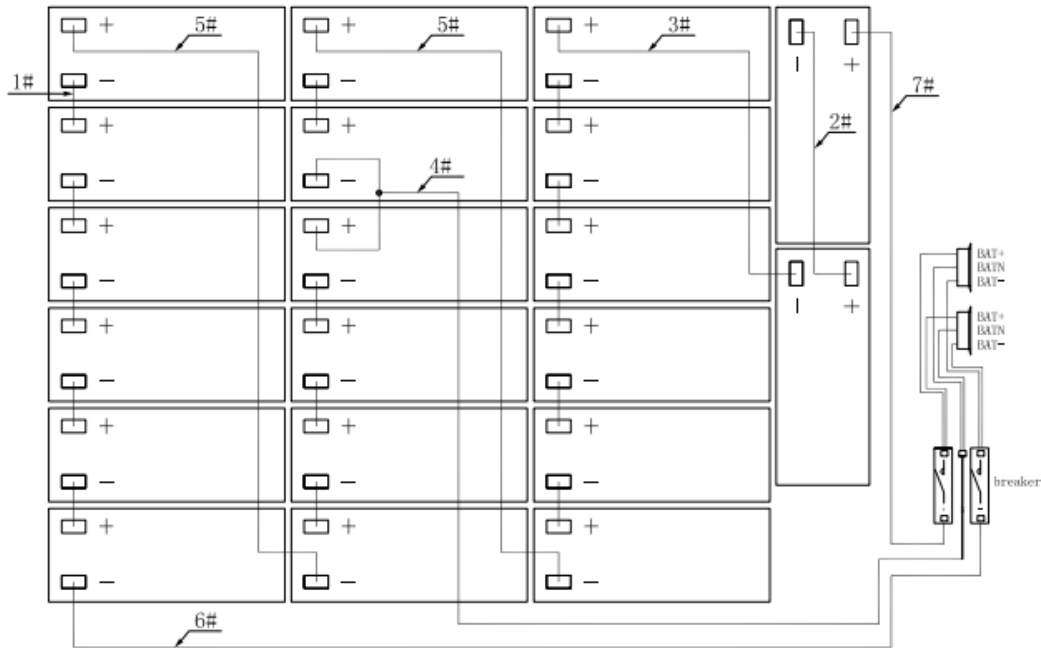


Fig. 5 (20pcs batteries connection)

**2.2.2** After the battery installation and connection done, check if BAT+ to N & N to BAT- voltages are correct with multimeter or other equipments. Install the cover if the voltages are correct.

**NOTE:** Battery “+” “-” poles cannot be reversed, also cannot short the battery “+” “-” poles, otherwise batteries would be damaged or other accidents would happen. Don’t touch the battery “+” “-” poles at the same time. It’s better only single man make the operation.

### 3. Battery pack accessories

A complete of 6-10kVA UPS battery pack includes below accessories.

No.	Name	Specification	PCS
1	Cable 1#	Black wire 1015 10AWG 101mm 250TC*2	14
2	Cable 2#	Black wire 1015 10AWG 250mm 250TC*2	1
3	Cable 3#	Black wire 1015 10AWG 420mm 250TC*2	1
4	Cable 4#	Blue wire 1015 10AWG 100*2/550mm 250TC*2+BN8+OI5.5-5	1
5	Cable 5#	Black wire 1015 10AWG 650mm 250TC*2	2
6	Cable 6#	Black wire 1015 10AWG 600mm 250TC+YI6	1
7	Cable 7#	Red wire 1015 10AWG 550mm 250TC+YI6	1
8	BAT_N	4wires Blue 1015 12AWG 150*2/200mm*2 OI14-5+P30*4	1
9	BAT_-	2wires black 1015 12AWG 200mm P30*2+YI6	2
10	BAT_+	2wires red 1015 12AWG 200mm P30*2+YI6	2
11	Breaker	NDB2Z-63 C63/1 1P 63A/250VDC UL certified	2
12	Battery Pack	W443*H131*D585mm	1