

# USER MANUAL



# 1.1 Symbol and Explanation

Some or all of the following symbols may be used in this manual. It is advisable to familiarize yourself with them and understand their meaning:

Symbol and Explanation					
Symbol	Explanation	Symbol	Explanation		
⚠	Alert you to pay special attention	$\sim$	Alternating current source (AC)		
A	Caution of high voltage		Direct current source (DC)		
1	Turn on the UPS	÷	Protective ground		
0	Turn off the UPS	0	Recycle		
U	Idle or shut down the UPS	$\boxtimes$	Do not dispose with ordinary trash		

### 1.2 Front view





C6KS/C10KS/3C10KS

1.3 Rear View







# 1.4 product specification

Model	C6	K	C6KS	C10K	C10KS	3C10KS	
Dimensions W*D*H(mm)	248 x x616	500	212 x500 x420	248 x500 x616	212 x500 x420	212 x500 x420	
Weight(kg)	58.0		1/1 2	62.1	15.9	16.9	
Power	00.0		17.2	02.1	10.5	10.5	
Apparent Power	6KVA	1	6KVA/	10KVA/	10KVA/	10KVA/	
(KVA) / Active	5.4KV	V	5.4KW	9KW	9KW	9KW	
power (KW)							
Mains							
Voltage range	120Va	ac-275	Vac(phase t	o phase)			
Current*	32.1A		36.1A	52.6 A	56.6 A	56.6 A	
_	max		max	max	max	max	
Frequency range	40Hz-	70Hz					
Power factor	0.99 0.95					0.95	
Output							
Rating Voltage	220Vac(±1%)						
Rating Current	27A 45A						
Frequency range	50Hz x (1 $\pm$ 1%); Follow main power in phase lock range						
Power factor	0.9						
Output Overload	105%-125%, load transfer to bypass mode after 10 min						
	(0-30℃) or 1min(30℃-40);						
	125%-150%,load transfer to bypass mode after 30s;						
	Over 150%, load transfer to bypass after 0.5s						
Load crest ratio	3:1( max)						
THD	THD <2%( 100% Line load)						
Battery(under high	Battery(under high temperature, battery life will decrease)						
Backup Time	Time 4 min Depend 3 min Depend on external						
	Full L	bad	on	Full Load	battery cap	acity	
			external				
			ballery				
Charge Time	7 Hou	re	Depend	7 Houre	Depend on	external	
	to 90%	6	on	to 90%	battery can	acity	
		0	external	10 00 /0		aony	
			battery				
			capacity				
EMC Standard EN62040-2;2005/GB7260-2;2009							
Safety Standard E		EN62040-1:2008+A1:2013					
YD Standard		YD/T1095-2008/CQC3108-2011					
Operation temperature		<b>0-40</b> ℃					
Store temperature		-25℃ to 55℃					
Relative humidity		20% to 90%					
Altitude	<1000m						

Model		C6K	C6KS	C10K	C10KS	3C10KS
Input	G	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
	N	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
	L	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
Batter	+	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
У	-	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
	G	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
Output	L	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
	N	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>
	G	6mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>	10mm <sup>2</sup>

For 3 phase input UPS, "L" means L1/L3/L3 and they are the same cable wideth.

### 2.3 UPS Power Connection

DANGER: Inorder to avoid the Mains power switch current overload when UPS carries with rating load, the Mains power switch rating current must be more than the bypass switch rating current.(bypass mode max current refer to 1.4 product specification)

It is suggested to install an external isolating device against current backfeed between Mains input and UPS (see Fig.). After the device is installed, it must add a warning label with the following wording or the equivalent on the external AC contactor : RISK OF VOLTAGE BACKFEED. Isolate the UPS before operating on this circuit, then check for hazardous voltage between all terminals.



#### Single Phase Terminals:



Three Phase Terminals:



- 7. Make the straps through across the Beam frame.
- 8. Adjust the straps to proper position; Fix the input cable, output cable, EBM cable tightly.
- 9. Re-screw the terminal cover.

 Select proper power cable(refer 2.2 power cable table) connect EBM and UPS. Make sure install a DC breaker(eg.EATON LZMN1-A160) between UPS and EBM connection. The minimum rating voltage and rating current of DC breaker not less than below table.

UPS Type	C6KS	C10KS	3C10KS
Battery voltage	192Vdc	192Vdc	192Vdc
Battery current	36.5A. Max	60.5A. Max	60.5A. Max

DANGER: Inorder to avoid hazards shock, do not connect EBM to UPS Before finish EBM connecting.

 Connect EBM to UPS, after finish connecting between EBM and UPS, UPS output does not carry with any load, then turn on EBM switch to On possiton, and turn on mains power switch, UPS begins to charge EBM at the time.

ANote: Verify the battery connect to UPS with the correct polarity.

## 2.5 UPS Connect To Computer Port

RS232 interface is for the monitoring software and firmware update. UPS connect to monitor device with RS232 cable.

- 1. One end of RS232 cable connects to computer RS232 port.
- 2. One end of RS232 cable connects to UPS RS232 port.





C6K/C10K



C6KS/C10KS