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External Socket Box User's Manual

For 6KVA

1. Important Safety Instruction

- Do not open the case, as there are no serviceable parts inside. Your warranty will be void.
- Do not try to repair the unit yourself, contact your local supplier or your warranty will be void.
- SAVE THESE INSTRUCTIONS--This manual contains important instruction that should be followed while installation and operation.
- Make sure that the AC Utility outlet is correctly grounded to avoid any possibility of unpredictable voltage leakage.
- Make sure the input voltage is within the windows stated in the specs sheet and the load connected is within the rated capacity.
- Should a strange noise, or smell occur, please turn off the unit and consult your local distributor for repair immediately.

2. Installation and Operation

2.1. ESB Unpacking

2.1.1. Remove the PE foam of the ESB.

2.1.2. Check attached accessories.

- User's Manual x 1 copy
- Screws x 1 set
- Fixing metal kit x 2 sets

2.2. Selecting Installation Position

It is necessary to select a proper environment to install the unit, in order to minimize the possibility of damage to the ESB and extend its life. Please follow the instructions below:

- Please ensure the installation site environmental conditions are in accordance with working specifications to avoid overheat and excessive moisture.
- Do not place the ESB in a dusty or corrosive environment or near any flammable objects.
- This ESB is not designed for outdoor use.

2.3. Wire Assembly of the Input & Output

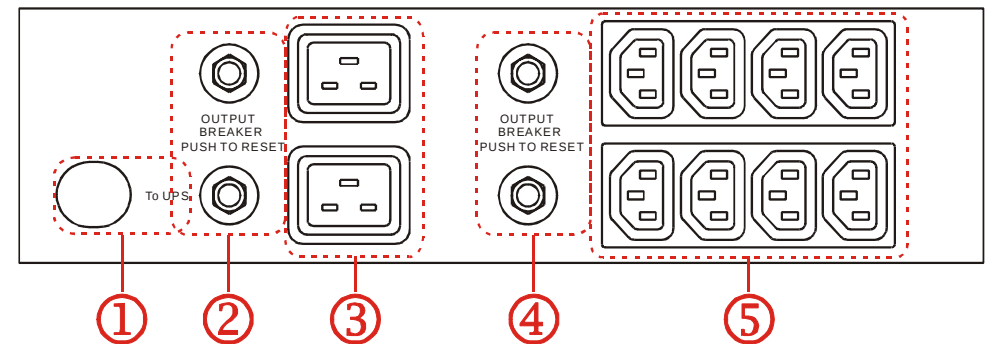


Figure 1: ESB front Panel

① Input Power Cord(To UPS): to the Power Module or the output terminal of the transformer Module GTM.

②& Output Circuit Breaker: for protection purpose

③& Output Socket: to the Load

2.4. Installation and Operation

The ESB is specially designed for On Line 6KVA convertible UPS. Its installation procedures might be dependent on the Power Module or the Transformer Module GTM chosen. You may refer to Figure 2 and Chapter 5 for a proper installation.

Installation Procedure:

- 1. Unpack the package and keep the package for future use.
- 2. Check if any damage occurred during transportation. If yes, please contact with your local agent.
- 3. Make sure the Input Power cord & Output sockets of the ESB are in accordance with the PM or GTM chosen.
- 4. Shut down the load connected to the UPS and remove the input cable of the load from the UPS, then turn off the UPS and remove the input power cord of the UPS from the wall receptacle.
- 5. Fasten the fixing kit onto the ESB as Figure 2.
- 6. Fasten the fixing kit #1 to the Battery Module or the fixing kit #2 to the Rack Cabinet as figure 2.
- 7. Connect the input Power Cord of the ESB to the output Terminal of the PM or GTM.
- 8. Connect the output load evenly to the output sockets of the ESB. Make sure There is no overload condition occurs and all the loads connected are complied with the specs of the UPS.
- 9. Start up the UPS according to the user’s manual of the UPS.

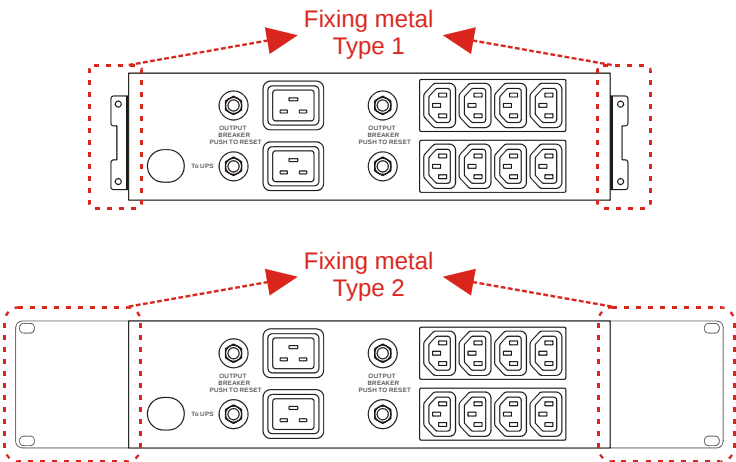


Figure 2: ESB Fixing Kits and their Installation

3. Trouble Shooting

Should not your ESB operate normally, you may make some proper adjustments and replacements as indicated below. Should the ESB still operate abnormally, please consult with your local agent immediately.

Situation	Checked Items	Solution
Some or all of the loads are not supplied with electrical energy	UPS has no output.	Please refer to the operation manual of the UPS for start up the UPS properly.
	The Circuit Breaker the Output sockets of the ESB is tripped.	Reset the Circuit Breaker.
There is no electrical energy supply after reset the output circuit breaker, even though the UPS output is normal.	Over-current at the Output Socket	Reduce some uncritical load

4. Specifications

Operational Temperature	32°F to 104°F(0°C to +40°C)
Storage Temperature	-4°F to 140°F(−20°C to +40°C)
Dimension: W×D×H(mm)	86x50x326 / 86×65×326*
Net Weight(kg)	3.2

Model Number	Rating	Output Receptacles/Protection
ESB030	100~240VAC, 6000VA(MAX)	NEMA6-20R x 1 with 20A Circuit Breaker NEMA6-30R x 1 NEMA5-15R x 4 with 15A Circuit Breaker
ESB030A	100~240V, 6000VA(MAX)	NEMA6-30R x 1 with 30A Circuit Breaker NEMA5-30R x 1 with 30A Circuit Breaker NEMA5-20R x 1 with 20A Circuit Breaker NEMA5-15/20R x2 with 20A Circuit Breaker
ESB115	100~120VAC, 6000VA(MAX)	NEMA5-15R x 8 with 15A Circuit Breaker
ESB230	200~240VAC, 6000VA(MAX)	NEMA6-20R x 2 with 20A Circuit Breaker NEMA6-30R x 1
ESB230A	200~240VAC, 6000VA(MAX)	NEMA6-30R x 1 with 30A Circuit Breaker NEMA6-20R x 1 with 20A Circuit Breaker NEMA6-15/20R x4 with 20A Circuit Breaker
ESB216	200~240VAC, 6000VA(MAX)	IEC C19(16A) x 2 with 16A Circuit Breaker IEC C13(10A) x 8 with 10A Circuit Breaker
ESB216G	200~240VAC, 6000VA(MAX)	Local Socket x 2 with Circuit Breaker ** IEC C13(10A) x 4 with 10A Circuit Breaker

* ESB030A and ESB230A

** Local Socket: Schuko(German) with 16A Circuit Breaker, British with 13A Circuit Breaker, Australian with 10A Circuit Breaker or French with 16A Circuit Breaker °

5. Installation Illustration

5.1. 220/230/240VAC WITHOUT GTM

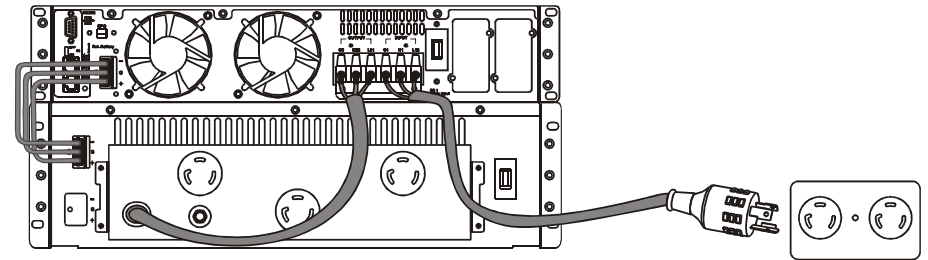


Figure 3: PM + BM 7AH + ESB230

5.2. 110VAC/220VAC (115/230 or 120/240VAC) WITH GTM

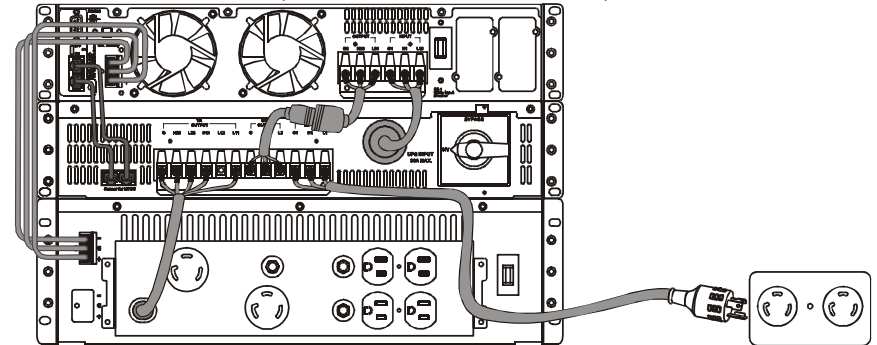


Figure 4: PM + GTM-WS + BM 7AH + ESB030

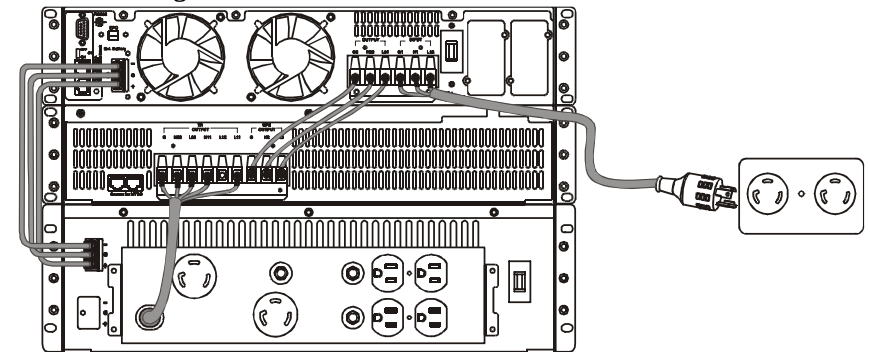


Figure 5: PM + GTM-WOS + BM 7AH + ESB030

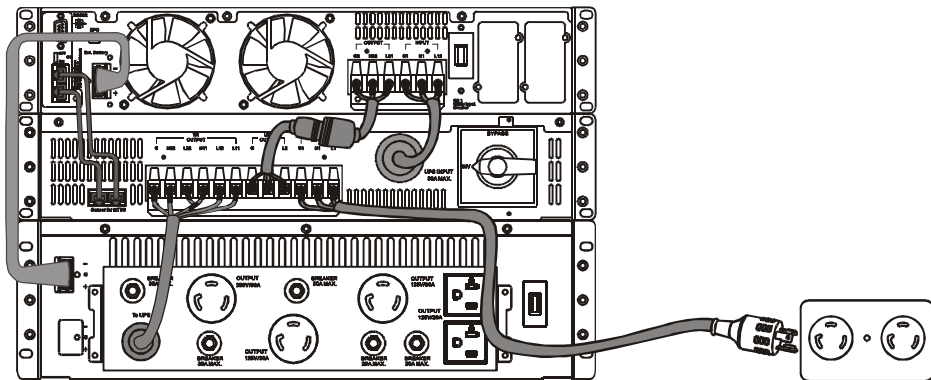


Figure6: PM + GTM-WS + BM 7AH + ESB030A

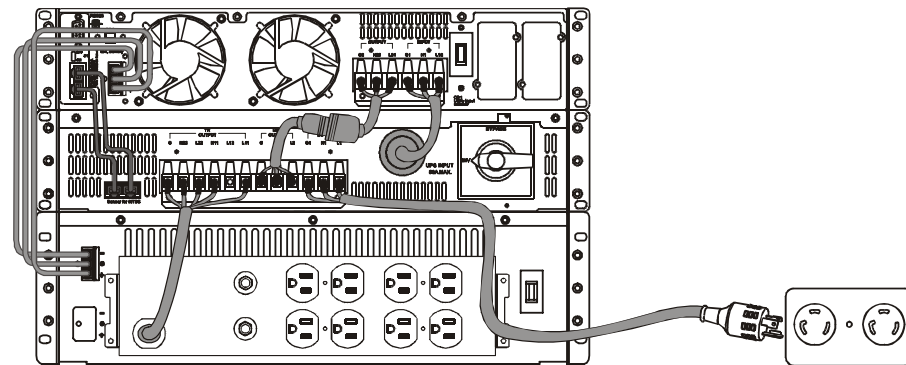


Figure 9: PM + GTM-WS + BM 7AH + ESB115

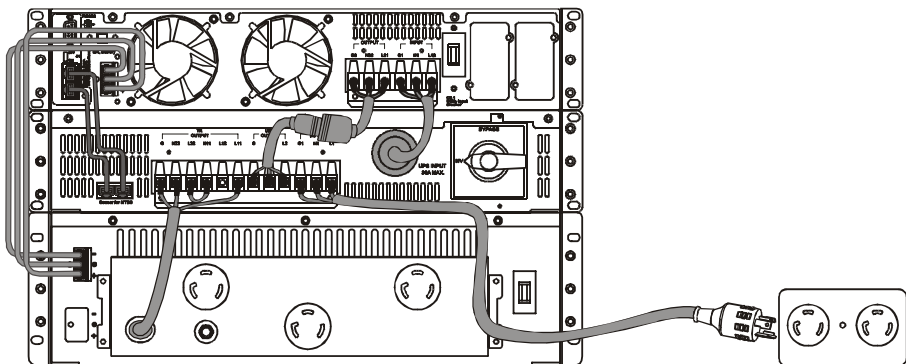


Figure 7: PM + GTM-WS + BM 7AH + ESB230

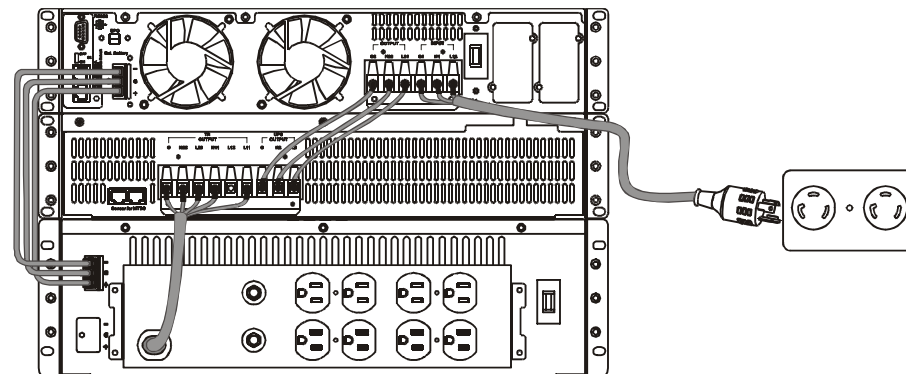


Figure 10: PM + GTM-WOS + BM 7AH + ESB115

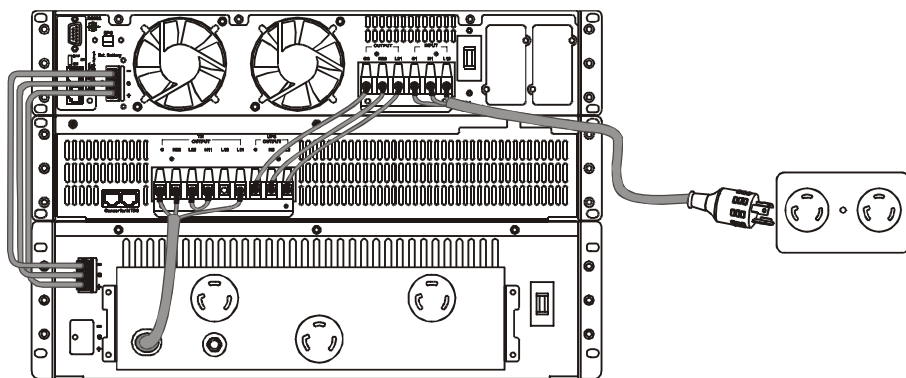


Figure 8: PM + GTM-WOS + BM 7AH + ESB230

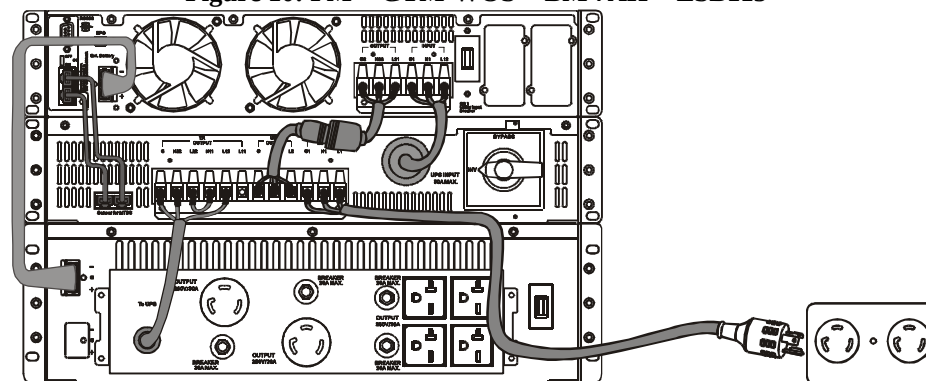


Figure 11: PM + GTM-WS + BM 7AH + ESB230A

5.3. 220/230/240VAC WITHOUT GTM

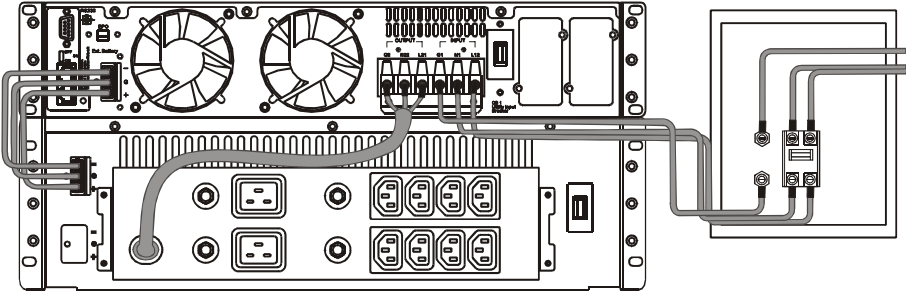


Figure 12: PM + BM 7AH + ESB216

5.4. 220/230/240VAC WITH GTM

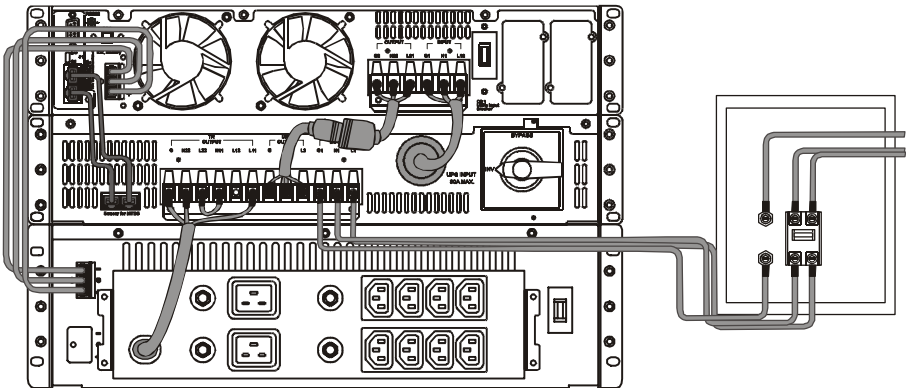


Figure 13: PM + GTM-WS + BM 7AH + ESB216

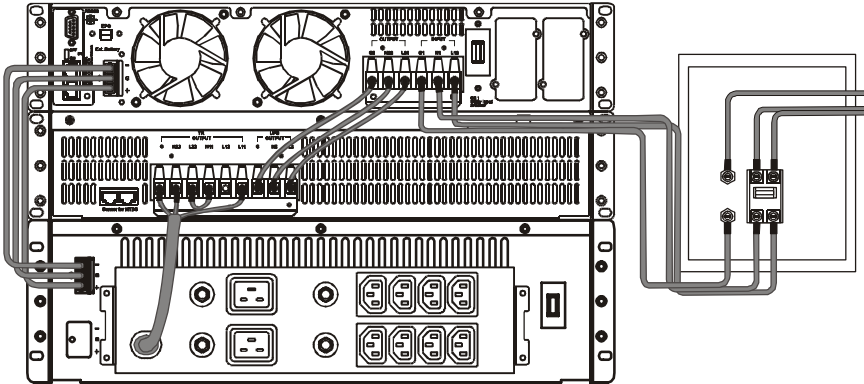


Figure 14: PM + GTM-WOS + BM 7AH + ESB216

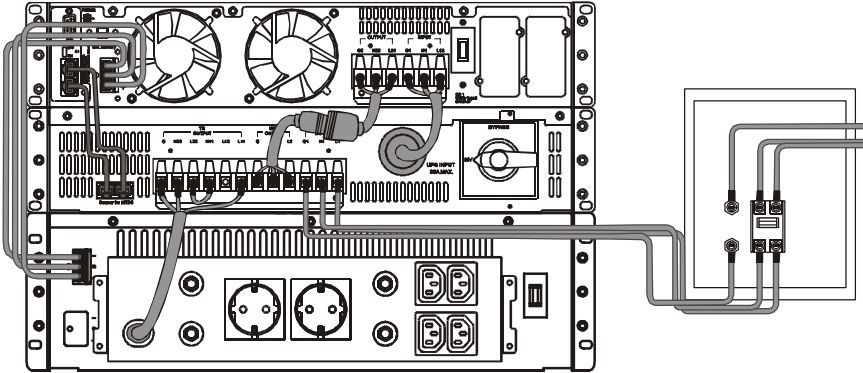


Figure 15: PM + GTM-WS + BM 7AH + ESB216G

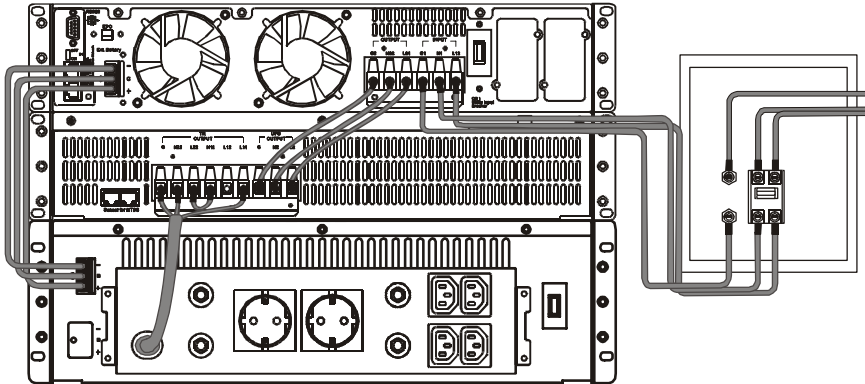


Figure 16: PM + GTM-WOS + BM 7AH + ESB216G

5.5. Terminal Block Explanation

Model Number	Terminal Block Explanation	
ESB030	G N22 L22 N11 L12 L11 Green BLUE BROWN WHITE BLACK	
ESB030A	G N22 L22 N11 L12 L11 Green Blue White Brown Black	
ESB115	G N22 L22 N11 L12 L11 Green BLUE BROWN WHITE BLACK	
ESB230	G N22 L22 N11 L12 L11 Green WHITE BLACK	G2 N22 L21 Green WHITE BLACK
ESB230A	G N22 L22 N11 L12 L11 Green WHITE BLACK	G2 N22 L21 Green WHITE BLACK
ESB216	G N22 L22 N11 L12 L11 Green WHITE BLACK	G2 N22 L21 Green WHITE BLACK
ESB216G	G N22 L22 N11 L12 L11 Green WHITE BLACK	G2 N22 L21 Green WHITE BLACK

