MITSUBISHI

Changes for the Better

ZJ-12627A

MANUAL POWER SUPPLY UNIT
MODEL LL-05ZX
INSTRUCTION MANUAL

1. Introduction

This power supply unit is an exclusive power source for Type ZX Mitsubishi Powder Brake, and is designed to excite the powder brake by obtaining a DC voltage of 80V from AC power source of 100V, 50/60Hz.

2. Specification

- Input voltage : AC 100/100/110V (–15% ~ +10%) 50/60/60 Hz
- Output characteristics

Output maximum value : Set as follows by using the built-in switch depending on the powder brake to be used.

Switch setting (× : OFF, ○ : ON)				Output maximum value (A)	Type of applicable powder brake
1	2	3	4		
×	×	×	×	0.040	
○	×	×	×	0.080	
×	○	×	×	0.120	ZX-0.3Y, ZX-0.6Y
○	○	×	×	0.160	ZX-1.2Y
×	×	○	×	0.200	

(Note 1) Do not use in other setting than specified.
(Note 2) The setting before shipping is for ZX-0.3Y, ZX-0.6Y.

Output setting : Manual setting by output setting variable resistor (the maximum value is as specified on table above).
Emergency stop output : Selectable by external contact.
(The set value can be changed in a range up to the output maximum value by means of “S. ADJ” variable resistor)

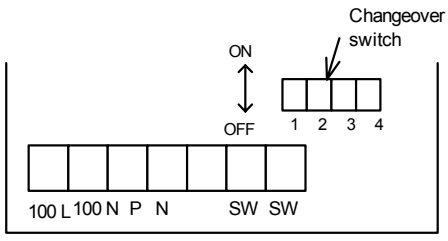
- Control method : Transformer-less pulse width control method, constant current output control.
- Weight : Approx. 500g
- Environments
  - Ambient temperature : 0 to 40°C
  - Ambient humidity : 35 to 85% RH (no condensation)
  - Vibration : In accordance with JIS C0040. 10 to 55 Hz, 0.5mm (19.6m / s^2 maximum)
  - Atmosphere : Free from corrosive gas or dust, not exposed to rain or water drops.

3. Mounting and wiring

- Install in a place which is dry, clean, and free from vibration, with ambient temperature not exceeding 40°C. Install by panel mounting or direct installation.
- Push the cover fixing pawl from the cover side to detach the cover upward, and connect wiring correctly to the built-in terminals.

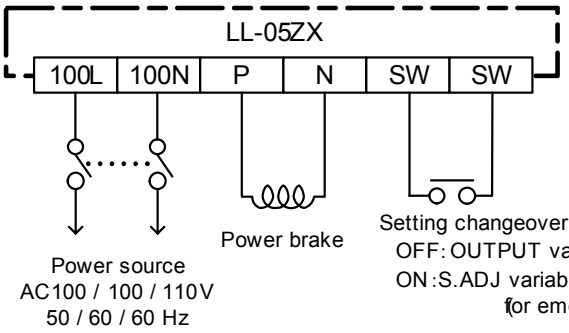
4. Setting of output maximum value

- Remove the cover, set the built-in changeover switch (see drawing) depending on the powder brake to be use.



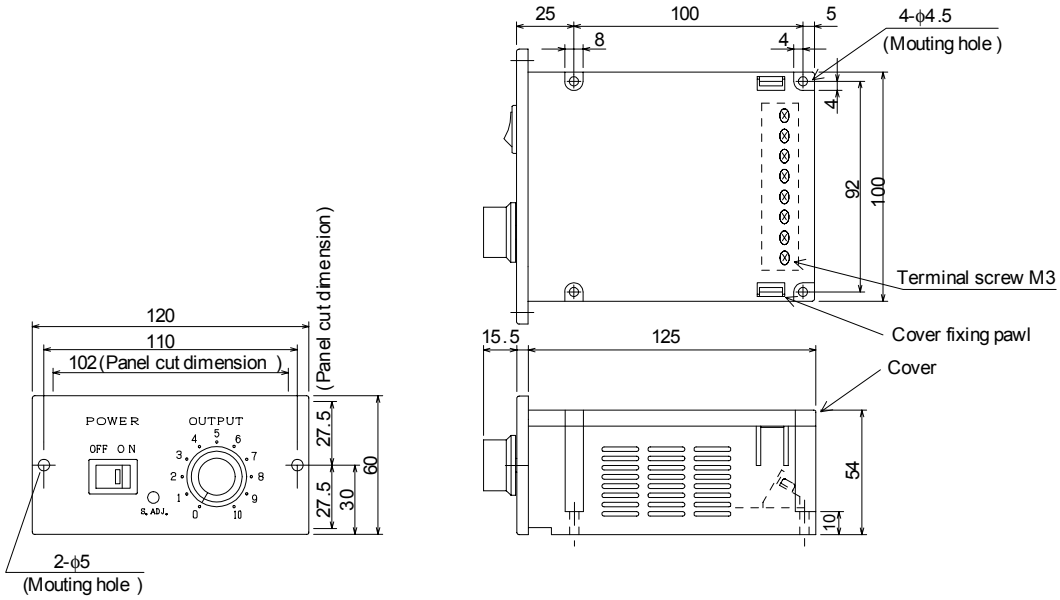
5. External connection, external dimensions

External connection



＊ Where emergency stop is not necessary, the setting changeover switch is unnecessary.

External dimensions



6. Insulation, dielectric strength tests

- For measuring the insulation resistance or dielectric strength of the control panel, in order to prevent breakdown of the equipment in case of wrong wiring or operation, detach all wires from the equipment, and test the control panel side alone.
- Do not test this equipment for insulation resistance or dielectric strength.

7. Cautions

- For about 3 minutes after turning off the power, a voltage remains in the capacitor. Do not touch the internal parts and terminals in this period.
- The power switch is of one-side cutting type. Even if the power switch is turned off, electric shock is possible. When checking the internal parts for connecting wires to the terminal block or checking, cut off both terminals [100] and [100] from the power supply.
- This product is designed to be protected from load short-circuiting or the like by the output cut-off function, and usually the fuse does not melt down. If the fuse is blown due to some abnormality, it means internal parts are broken. Replace the product in assembly.