DLP/E Series Instruction Manual

BEFORE USING THE POWER SUPPLY HART

Pay attention to all warnings and cautions before using the unit. Incorrect usage could lead to an electrical shock. damage to the unit or a fire hazard

Warning Symbols

CAUTION	
. DO NOT MODIFY, DISASSEMBLE THE POWER SUPPLY	(3)
- HOT SURFACE	<u> </u>
READ INSTRUCTION MANUAL BEFORE CONNECTING TO MAINS,	0
. ELECTRIC SHOCK HAZARDOUS ON THE CONNECTOR SECTION	A

NOTICE

- Installing/Storage Environment

 1 Store the product with ambient temperature ~30 to +85°C, and relative humidity 10 to 95% (No Dewdrop)

- 1. Store the product with ambient temperature –30 to +85°C, and relative humidity 10 to 95% (No Dewdrop).

 2. Never operate the unit under over current or shorted econditions for 30 seconds or more and out of Imput. Voltage fanage in specification which could result in damage or insulation failure or amoking or burning.

 3. Confirm connections to imput/output terminals are correct as indicated in the instruction manual.

 4. Use the product where the relative humidity is 30 to 90% (No Dewdrop).

 5. Avoid places where the product is subjected to direct sun light.

 6. Avoid peneration of metal chips when processing mounting holes.

 7. Avoid places where the products are subjected to peneration of fliquid, foreign substance, or corrotive gas.

 8. Avoid places subject to shock or vibration. A device such as a contact breaker may be a vibration source. Set the Power Supply as far as possible from possible sources of shock or vibration.

 9. If the Power Supply is used in an area with excessive electronic noise, be sure to separate the Power Supply as far as possible from the noise sources.

 recautions in using the product:

 Then the product is used under the circumstance or environment below, ensure adherence to limitations of the ra

Precautions in using the product:

When the product is used under the circumstance or environment below, ensure adherence to limitations of the ratings and functions.
Also take countermeasures for safety precautions such as fall-safe installations.

1. Under the circumstances or environment which are not described in the instruction manual.

2. For nuclear power control, ratiway, aircraft, vehicle, incinerator, medical equipment, entertainment equipment, safety device etc.

3. For applications where death or serious property damage is possible and extensive safety precautions are required.

4. Terminal block covers are necessary to be used when connecting the input and output wire.

5. Don't recommend using input power source with large inductance, which may cause power supply operate unstably.

6. Dit 270.2.16. To consider the of consideration supply and control of the end environment properties must consider

- 6. DLP240-24-1/E are capable of providing hazardous energy output (240VA), the end equipment manufacturer must provide
- protection to service personal against inadvertent contact with output terminals. These terminals must not be user accessible

Note: CE MARKING

CE Marking, when applied to a product covered by this handbook indicates compliance with the low voltage

directive (73/23/EEC) as modified by the CE Marking Directive (93/68/EEC) in that it is complies with EN60950

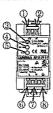
♠Meet EN50178 over voltage Category III(Primary) Over voltage Category II (Secondary)

Radio Interference Suppression Test is not performed.

Power supply attachment and removal method
 Power supply mounting on DIN RAIL
 (TS35 or equivalent)
 (1) Tilt the unit slightly rearwards, fit the unit

1. Terminal Explanation

IR D1.P75-24-1/E





■DLP180-24-1/E



22 D1.P240-24-1/E

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Service Servic

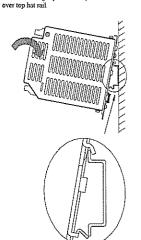
- 1) +V: +Qutput terminal
- 2 V: Output terminal
- (3) V.ADJ: Output voltage adjust trimmer The output voltage rises when a trimmer is turned clockwise.
- (4) DC ON: DC ON indicator (Green LED)
- (5) ALM: Alarm Indicator (Red LED)
- 6 L: AC Input terminal Live line (fuse in line)
- 7 N; AC input terminal Neutral line
- 8 FG: Input terminal FG
 Safety earth (Frame Ground)
 Connect to safety ground of apparatus

LAMBDA

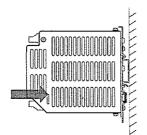
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3. Mounting Directions

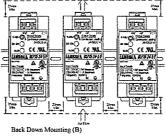
Directions



(3) Press against the bottom front side for locking. Shake the unit slightly to check the locking action



- (4) In order to tighten the unit mounting, the Din rail stopper attached on both sides of the unit is
- 2-2. Power supply removal from DIN RAIL
 Switch main power off and disconnect your system from
 the supply network. Push the button on the rear upper edge
 of the unit or move the removal hole on the rear down
 edge downwards by serew driver. Gently lift lower front
 edge of the unit (tipping) and remove it.

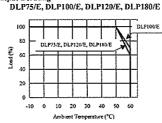


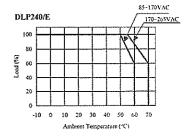
Output Derating according to the Mounting

Recommended standard mounting method is (A). Please do not use installation method (B). Refer to the derating below. Do not exceed the load deratings.



Output Derating





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4. Wiring Method

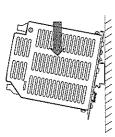
- The output load line and input line shall be separated
- The output roat me and injustivity and twisted to improve noise sensitivity
 Use all lines as thick and short as possible to make lower impedance.
 Noise can be eliminated by attaching a capacitor to the
- load terminals. EMI reduction performance by winding the cable around
- For active the performance by whoming the came around the toroidal ferrite core several times. Use any appropriate commecially available ferrite core from local vendor.

 For safety and EMI considerations, connect FG terminal of input connector and mountable FG to ground terminal of
- equipment.
 Recommended screw torque is 0.49N.m.
- •Recommended wire type, solid and stranded, AWG12-20 (wire strip length; 6mm)

5. External Fuse Rating

Refer to the following fuse rating when selecting the external fuses that are to be used on input line. Surge current flows when line turns on Use slow-blow fuse or time-lag type fuse. Do not use fast-blow fuse. Fuse'rating is specified by in-rush current value at line turn-on. Do not select the fuse according to input current (rms.) values under the actual load condition

DLP75/E	5A
DLP100/E	5A
DLP120/E	5A
DLP180Æ	5A
DLP240/E	6.3A



(2) Slide it

ownward until it hats the stop

