

DLP-PU/EJ SPECIFICATIONS

CA738-01-01/EJ-C

This specifications sheet also apply to option model DLP-PU/E

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ITEMS		MODEL	DLP-PU/EJ	
1	Input voltage range	-	21~28VDC	
2	Nominal input voltage	-	24VDC	
3	Input number	-	2 (A,B)	
4	Nominal input current	-	20A (A,B total)	
5	Maximum output current	-	20A	
6	Efficiency (Typ)	(* 1)	97%	
7	Voltage drop (Typ)	(* 2)	0.5VDC	
8	Maximum reverse output voltage	-	35VDC	
9	Over current protection	-	None	
10	Over voltage protection	-	None	
11	Input voltage monitor	-	A,B Individual Monitor	
12	Input voltage monitor indicator	-	Green LED	
13	Input voltage monitor alarm	-	Relay Contact (at nominal input voltage: Contact + to OK)	
	Low input voltage alarm level (* 3)	-	19.2V±1%	Less than low level or more than high level: Contact + to F (Discontact + to OK)
	High input voltage alarm level (* 4)	-	30V±5%	
14	Relay contacts ratings	Maximum	28VDC , 1A; 120VAC, 0.5A	
		Minimum	DC 1mA (5mA or more recommended)	
15	Operating temperature (* 5)	-	- 10 ~ + 70 °C Convection: -10 ~ +60°C (100%); 70°C (60%)	
16	Operating humidity	-	30 ~ 90 %RH (No dewdrop)	
17	Storage temperature	-	- 30 ~ +85°C	
18	Storage humidity	-	10 ~ 95%RH (No dewdrop)	
19	Cooling	-	Convection cooling	
20	Withstand voltage	-	Input,Output -FG; Input,Output - Relay Contact; Relay Contact-FG: 500VAC (100mA) for 1min.	
21	Isolation resistance	-	Input,Output -FG; Input,Output - Relay Contact; Relay Contact-FG: More than 10M Ω at Ta=25°C and 70%RH at 500VDC	
22	Vibration	-	At no operating and with DIN RAIL, 10~55Hz (Sweep for 1min) 9.8m/s ² Constant, X, Y, Z each 1hour	
23	Shock	-	196m/s ² (20G)	
24	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1(Expire date of 60950-1:20/12/2020), UL508,CSA C22.2 No.14, EN60529 IP20, EN50178 CATEGORY I	
25	EMI	-	No specify	
26	Weight (Typ)	g	470	
27	Size (W.H.D.)	mm	50x97x110 (Refer to Outline Drawing)	

* Read instruction manual carefully , before using the DLP-PU/EJ unit.

= NOTES=

- * 1: Nominal input voltage, nominal input current, Ta = 25°C.
- * 2 :Differential voltage between input and output.
- * 3 On the condition of increasing input voltage , hysteresis is about 0.7V.
- * 4 On the condition of decreasing input voltage , hysteresis is about 0.7V.
- * 5 : At standard mounting method, Fig A.
-Load(%) is percent of maximum output current.
-For standard mounting, refer to derating curve, Fig B.

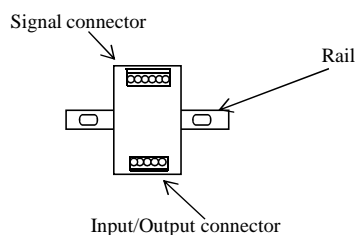


Fig. A

- *COOLING: CONVECTION COOLING
- *MOUNTING: STANDARD MOUNTING
- *VERTICAL SPACING: 25mm min
- *HORIZONTAL SPACING: 20mm min

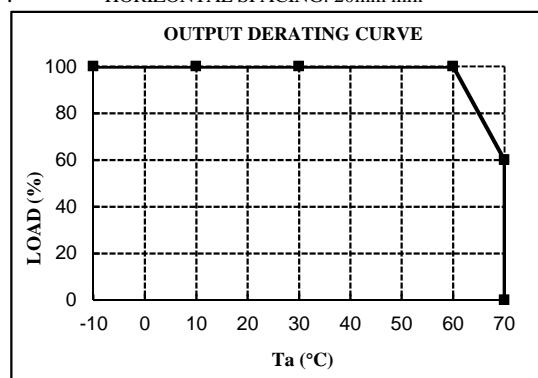


Fig. B

CA738-01-02/EJ

This brief description also apply to option model DLP-PU/E

1. BRIEF DESCRIPTION

The Power Voting Device is a 112.5 mm high assembly (above DIN-rail) with base 50 x 97 mm. It is intended for mounting on a horizontally extended top hat DIN-rail fixed to a vertical plane or frame.

The DLP-PU/EJ is a dual power diode unit, an OR gate receiving d.c. 24Volts from two redundant sources of power, delivering a common 24V power supply at the two output terminals +V connected in parallel. The -V minus return terminal is used for powering the internal Supervisory logic circuits only. It is connected to the common -V minus power terminals of the “A” and “B” redundant power supply devices sourcing the A+ and B+ input terminals. The load is connected to one or both of the power output terminal +V. Each one of these terminals can be continuously loaded with 20 Amperes.

Each power inlet is supervised. For voltages above a certain predetermined level a relay is activated closing a galvanically free contact, + to OK (Normally Open, NO).

The relay also has a Normally Closed, NC contact set, eg. + to F (Fail).

This voting device also is equipped with green Light Emitting Diodes, lighting simultaneously with the respective activated relay.

This Power Voting Device is utilized for redundant power applications. Recommended sources of power are eg. the 24 Volts power supply units DLP75-24-1/E, DLP75-24-1/EJ, DLP100-24-1/E, DLP100-24-1/EJ, DLP120-24-1/E, DLP120-24-1/EJ, DLP180-24-1/E, DLP180-24-1/EJ, DLP240-24-1/E and DLP240-24-1/EJ.

Features:

- . Isolated for SELV or PELV applications
- . Overvoltage Category I for connection to secondary d.c. 24 Volts power sources of installation Category I (smoothed d.c. output)
- . DC-Input; 2x24 Volts (A+ and B+), 20 Amperes each, or less
- . DC-Output; single 24 Volts (dual +V), 20 Amperes, or less
- . Green LED indicators at the front-panel, indicating satisfying input voltage levels
- . Isolated relay contact outputs, NC/NO; NO closed means input voltage is OK
- . Easily exchangeable, DIN-rail mount

2. CONENCTION DIAGRAM

Simplified connection diagram.

