

Power Supplies

TDR-M, TDR-H Series

DC Input

Multi Output, Long Life

FEATURES

- These switching power supplies are designed for high reliability and long operational life.
- Remote sensing(only 5V).
- Remote ON-OFF.



PART NUMBERS AND RATINGS

Part No.	Input voltage Edc(V)	Output current(A)				
		+5V	+12V	−12V	+15V	−15V
TDR-001M	20 to 30	10	1	1		
TDR-002M	20 to 30	10			1	1
TDR-001H	42 to 56	10	1	1		
TDR-002H	42 to 56	10			1	1

SPECIFICATIONS

75W TYPE

Part No.	M type:24V input		TDR-001M			TDR-002M		
	H type:48V input		TDR-001H			TDR-002H		
Output voltage, current*			+5V • 10A	+12V • 1A	−12V • 1A	+5V • 10A	+15V • 1A	−15V • 1A
Input requirements								
Input voltage	M type	V	20 to 30[Rating: 24]					
Edc	H type	V	40 to 56[Rating: 48]					
Input current	M type	A	6.5max.[Fuse rating: 7A, 24V input]					
	H type	A	2.6max.[Fuse rating: 3A, 48V input]					
Efficiency		%	74typ.[25°C, input and output ratings]					
Output characteristics								
Output voltage		V	+5	+12	−12	+5	+15	−15
Maximum output current*		A	10	1	1	10	1	1
Maximum output power		W	74					
Voltage variable range[25°C]		V	5V: 4 to 5.5, 12V: 9.6 to 13.2, 15V: 12 to 16.5					
Overvoltage threshold[25°C]		V	5V: 6 to 6.9, 12V: 13.7 to 15.5, 15V:17 to 19					
Overcurrent threshold		A	5V: 11.4 to 13.2, ±NV: 1.08 to 1.32					
Voltage stability	Input variation	%	0.8max.(0.4typ.)[Within the input voltage range]			Total variation 2max.(1typ.)		
	Load variation	%	1max.(0.4typ.)[10 to 100% load]					
	Temperature variation	%	1.3max.(0.6typ.)[0 to +50°C]					
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]					
	Ripple Ep-p	mV	5V: 40max. ±NV: 50max.					
	Noise Ep-p	mV	Output voltage×1%+50max.					
Accessory equipment								
Overvoltage protection			Voltage shielding type, recovers upon reset.					
Overcurrent protection			Fixed current and voltage threshold type, automatic recovery.					
Remote ON-OFF			Yes(RC terminal and 0V terminal of ±NV are shorted and turned OFF.)					
Remote sensing			Only 5V					
Construction								
External dimensions H×W×L		mm	130×55×224					
Weight		kg	1.4max.					
Mounting method			Can be attached to 4 sides.					
Case material			Aluminum(Phosphoric acid anodized surface)					

* Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.

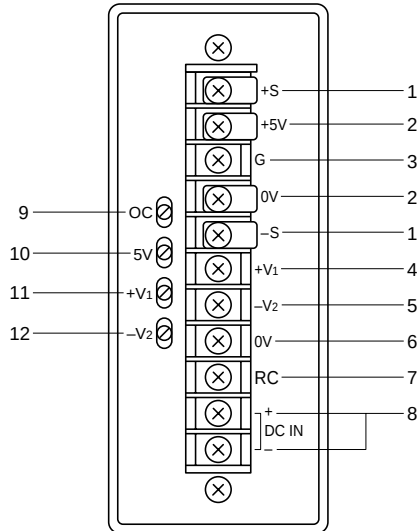
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TERMINAL DESIGNATIONS AND FUNCTIONS



Terminal No. 1: Remote sensing terminals(+S, -S)

These are normally jumpered. When controlling voltage to the load, please remove jumper, and wire these.

Terminal No. 2: +5V DC output terminals(+5V, 0V)

Connect to load.

Terminal No. 3: Frame ground terminal(G)

Connect to earth ground. This is connected to the case.

Terminal No. 4: +NV output terminal(+V₁)

Connect to load.

Terminal No. 5: -NV output terminal(-V₂)

Connect to load.

Terminal No. 6: Ground terminal(0V)

Ground terminal for +NV and -NV.

Terminal No. 7: Remote ON-OFF terminal(RC)

Output is turned ON-OFF by disconnecting-connecting the RC terminal to the No. 6 ground terminal(output ON when open).

Terminal No. 8: DC input terminals(INPUT DC IN, +, -)

Connect to DC input lines.

Terminal No. 9: +5V overcurrent adjustment trim(OC)

Adjusts overcurrent threshold of the +5V output.

Terminal No. 10: +5V output voltage adjustment trim(5V)

Adjusts voltage of the +5V output.

Terminal No. 11: +NV output voltage adjustment trim(+V₁)

Adjusts voltage of the +NV output.

Terminal No. 12: -NV output voltage adjustment trim(-V₂)

Adjusts voltage of the -NV output.

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