



**90 - 100 Watt
AC/DC Modules, DIN Rail
Series DVM100-TDR**



Features

- Input: 85 – 264VAC & 120 – 370VDC
- Regulated Output, Low Ripple & Noise
- Isolation I/O 4000VAC
- Efficiency to 90%
- Meet Safety UL62368, IEC62368, EN62368
- Over Current Protection
- Over Voltage Protection
- Short Circuit Protection
- Safety Class II
- Meets CISPR32 / EN55032 Class B

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [A]	OUTPUT VOLTAGE ADJUSTABLE RANGE (50% LOAD) [V]	EFF. TYP. [%] (NOTE 1)	OUTPUT POWER [W]	CAP. LOAD MAX. [μ F]
DVM100-S12TDR	12	7,5	12-13,8	88	90	10000
DVM100-S15TDR	15	6,5	13,5-18,0	89	97	6400
DVM100-S24TDR	24	4,2	21,6-29,0	90	100	2500
DVM100-S48TDR	48	2,1	43,2-55,2	90	100	1100

Note:

1. At 230VAC

INPUT SPECIFICATIONS:

Input Voltage Range.....	AC Input	85 to 264VAC
	DC Input	120 to 370VDC
Input Frequency.....		47 to 63Hz
Input Current.....		115VAC 3A / 230VAC 1,6A max.
Inrush Current.....		115VAC 35A / 230VAC 70A typ.
Leakage Current.....	264VAC	0,5mA RMS max.

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....		±2% typ.
Line Regulation.....	Rated Load	±0,5% typ.
Load Regulation.....	230VAC	±1,5% typ.
Min. Load.....		0%
Ripple & Noise (Note 1) (20MHz Bandwidth).....	Vo 12V & 15V	120mVp-p max.
	Vo 24V	150mVp-p max.
	Vo 48V	240mVp-p max.
Temperature Coefficient.....		±0,03%/°C typ.
Stand-by Power Consumption	Vin 230VAC Vo 12V/15V	0,3W max.
	Vin 230VAC Vo 24V	0,35W max.
	Vin 230VAC Vo 48V	0,4W max.
Short Circuit Protection		Hiccup, Continuous, self-recovery
Over Current Protection		110%-200%Io, self-recovery
Over Voltage Protection	Vo 12V	≤20Vdc
	Vo 15V	≤25Vdc
	Vo 24V	≤35Vdc
	Vo 48V	≤60Vdc
Start-up Time.....		3s max.
Hold-up Time	230VAC	30ms typ.

GENERAL SPECIFICATIONS:

Isolation Voltage Input/Output..... (Test for 1 min., leakage current<5mA)	4000Vac min.
Operating Temperature Range	-40°C to +70°C
Derating above	see Derating Curve
Input Voltage Derating	see Derating Curve
Storage Temperature Range	-40°C to +85°C
Cooling.....	Free Air Convection
Humidity (non condensing)	95% max.
Operating Altitude.....	2000m max.
Switching Frequency	65kHz typ.
Efficiency	see table
MTBF (MIL-HDBK-217@25°C).....	>300.000h

SAFETY:

EMI.....	CE/RE	CISPR32/EN55032 Class B
Immunity	IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-11	
Safety Standards meet.....		IEC/EN/UL62368-1
Safety Class.....		CLASS II

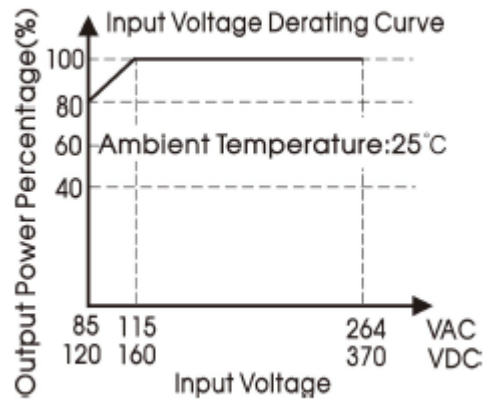
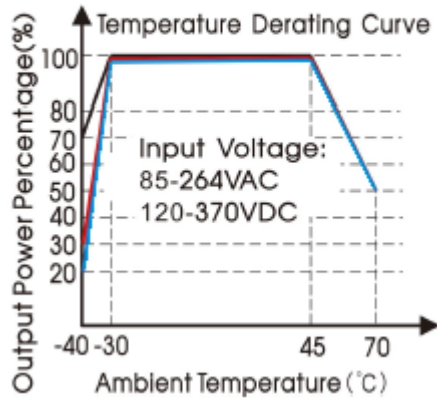
MECHANICAL SPECIFICATIONS:

Mounting	Rail TS35
Case Material	Plastic UL94V-0
Dimension	70 x 92,66 x 58 (mm)
Weight.....	235g typ.

NOTE:

1. The "parallel cable" method is used for ripple and noise test.
2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75% with nominal input voltage and rated output load;

- DVM100-S12TDR / DVM100-S48TDR
- DVM100-S24TDR
- DVM100-S15TDR



Dimension

Note:

Unit: mm [inch]

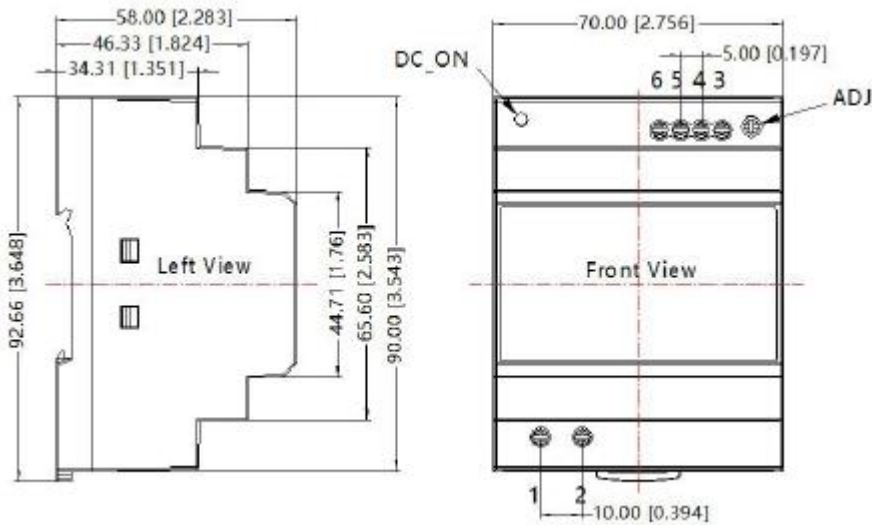
ADJ: Adjustable resistance to change output voltage

Wire range: 24-12 AWG

Tightening torque: Max. 0.4 Nm

Mounting Rail: TS35

General tolerances: $\pm 1.00\text{mm}$ [± 0.039]



Pin	Single Output
1	AC (L)
2	AC (N)
3	+Vo
4	+Vo
5	-Vo
6	-Vo