



**15 - 36 Watt
AC/DC Modules, DIN Rail
Series DVM30-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]
DVM30-S05TDR	5	3	4,9-5,5	82	15	12000
DVM30-S12TDR	12	2	10,8-13,8	88	24	6000
DVM30-S15TDR	15	2	13,5-18,0	89	30	5000
DVM30-S24TDR	24	1,5	21,6-29,0	89	36	1400
DVM30-S48TDR	48	0,75	43,2-55,2	90	36	600

Note:

1. At 230VAC

INPUT SPECIFICATIONS:

Input Voltage Range.....	AC Input	85 to 264VAC
	DC Input	100 to 370VDC
Input Frequency.....		47 to 63Hz
Input Current.....		115VAC 900mA / 230VAC 500mA max.
Inrush Current.....		115VAC 25A / 230VAC 45A typ.
Leakage Current.....	264VAC	0,25mA 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 5V	80mVp-p max.
	Vo 12V & 15V	120mVp-p max.
	Vo 24V	150mVp-p max.
	Vo 48V	240mVp-p max.
Temperature Coefficient.....		
Stand-by Power Consumption	Vin 230VAC Vo 5V/12V/15V/24V	0,3W max.
	Vin 230VAC Vo 48V	0,4W max.
Short Circuit Protection		Hiccup, Continuous, self-recovery
Over Current Protection		≥120%Io, self-recovery
Over Voltage Protection	Vo 5V	≤7,5Vdc
	Vo 12V	≤16Vdc
	Vo 15V	≤20Vdc
	Vo 24V	≤36Vdc
	Vo 48V	≤60Vdc
Start-up Time		3s max.
Hold-up Time	115VAC	12ms typ.
	230VAC	60ms typ.

GENERAL SPECIFICATIONS:

Isolation Voltage Input/Output..... (Test for 1min., 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 +105°C
Cooling.....	Free Air Convection
Humidity (non condensing)	95% max.
Switching Frequency	65kHz typ.
Efficiency	see table
MTBF (MIL-HDBK-217 @25°C).....	>300.000h

SAFETY:

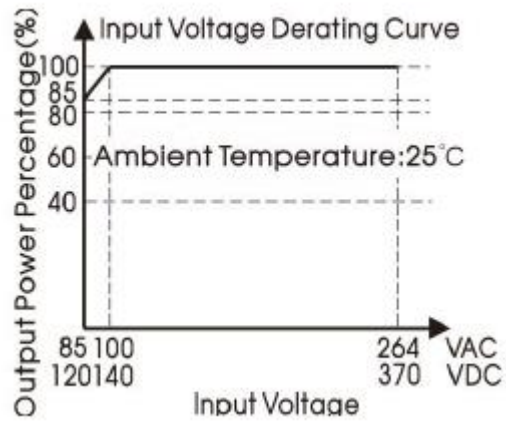
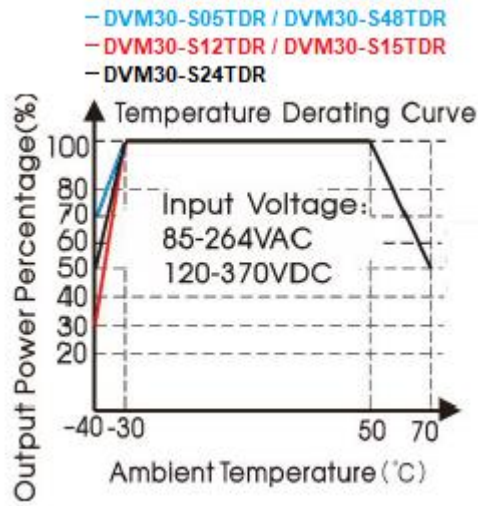
EMI.....	CE/RE	CISPR32/EN55032 Class B
Immunity	IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-11	
Safety Standards meet.....		IEC/EN/UL62368-1
Safety Class.....		CLASS II

MECHANICAL SPECIFICATIONS:

Mounting	Rail TS35
Case Material	Plastic UL94V-0
Dimension	35 x 92,66 x 58 (mm)
Weight.....	115g 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;



Dimension

Note:

Unit: mm [inch]

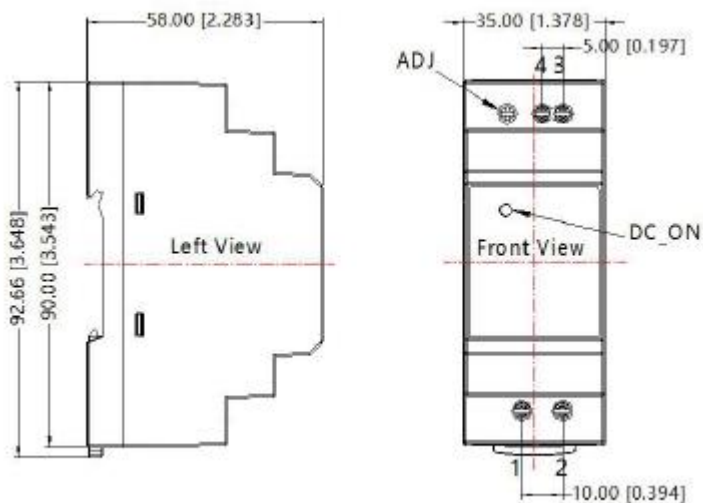
ADJ: Adjustable resistance to change output voltage

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 (N)
2	AC (L)
3	-Vo
4	+Vo

NC = NO CONNECTION