



**33 - 60 Watt
AC/DC Modules, DIN Rail
Series DVM60-TDR**



Features

- Input: 85 – 264VAC & 120 – 370VDC
- Regulated Output, Low Ripple & Noise
- Isolation I/O 4000VAC
- Efficiency to 91%
- 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]
DVM60-S05TDR	5	6,5	4,9-5,5	84	33	20000
DVM60-S12TDR	12	4,5	10,8-13,8	88	54	10000
DVM60-S15TDR	15	4,0	13,5-18,0	89	60	8000
DVM60-S24TDR	24	2,5	21,6-29,0	90	60	4000
DVM60-S48TDR	48	1,25	43,2-55,2	91	60	680

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 1200mA / 230VAC 800mA max.
Inrush Current		115VAC 30A / 230VAC 60A 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.....	100mVp-p max.
	Vo 12V & 15V.....	120mVp-p max.
	Vo 24V.....	150mVp-p max.
	Vo 48V.....	240mVp-p max.
Temperature Coefficient.....		±0,02%/°C typ.
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.....	15ms typ.
	230VAC.....	80ms 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 +85°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

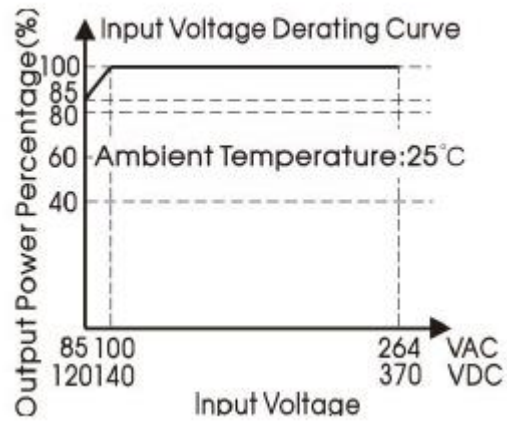
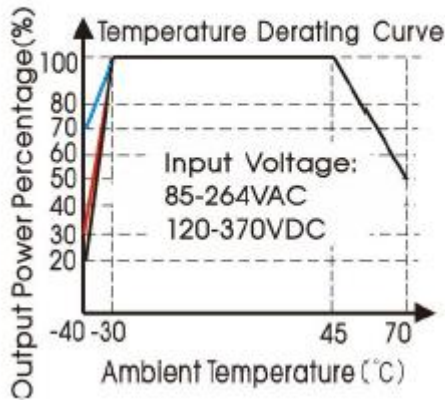
MECHANICAL SPECIFICATIONS:

Mounting		Rail TS35
Case Material		Plastic UL94V-0
Dimension		52 x 92,66 x 58 (mm)
Weight.....		175g typ.

NOTE:

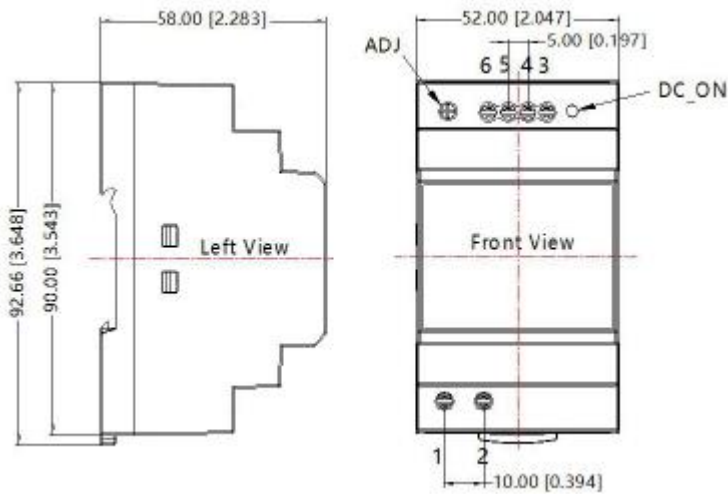
1. The "parallel cable" method is used for ripple and noise test.
2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C, humidity<75% with nominal input voltage and rated output load;

- DVM60-S05TDR / DVM60-S12TDR / DVM60-S48TDR
- DVM60-S24TDR
- DVM60-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