



**50 Watt
AC/DC Enclosed Power Supply
Single Output
Series DVM50S-C**



Features

- Input: 85 – 264VAC & 120 – 370VDC
- Regulated Output, Low Ripple & Noise
- Isolation I/O 4000VAC
- Efficiency to 88%
- Meet Safety UL62368, IEC62368, EN62368
- Over Current / Over Voltage Protection
- Short Circuit Protection
- Safety Class I
- Meets CISPR32 / EN55032 Class B
- Meet EN60335

MODEL NUMBER	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [A]	OUTPUT VOLTAGE ADJ. RANGE [VDC]	MIN. LOAD [A]	EFF. TYP. [%]	OUTPUT POWER [W]	CAP. LOAD MAX. [uF]
DVM50S05-C	5	10	4,5 – 5,5	0	83	50	8000
DVM50S12-C	12	4,2	10,2 – 13,8		86	50	2000
DVM50S15-C	15	3,4	13,5 – 18		88	51	1500
DVM50S24-C	24	2,2	21,6 – 28,8		88	52	1000

Note:

1. Nominal Input Voltage at 230Vac.

INPUT SPECIFICATIONS:

Input Voltage Range.....	85 to 264VAC / 100 to 370VDC
Input Frequency.....	47 to 63Hz
Input Current.....	115VAC 1,2A / 230VAC 600mA max.
Inrush Current (Cold Start).....	115VAC 30A / 230VAC 45A typ.
Leakage Current.....	Vin 240VAC <0,75mA

OUTPUT SPECIFICATIONS:

Voltage Accuracy (Full Load Range)	Vo 5V	±2,0% typ.
	Other Outputs	±1,0% typ.
Line Regulation (Rated Load)		±0,5% typ.
Load Regulation (0%-100% Load).....	Vo 5V	±1,0% typ.
	Other Outputs	±0,5% typ.
Ripple & Noise (Note 1) (20MHz Bandwidth)	Vo 5V	80mVp-p typ.
	Vo 12V & Vo 15V	120mVp-p typ.
	Vo 24V	180mVp-p typ.
Temperature Coefficient.....		±0,03%/°C typ.
Short Circuit Protection (Recovery after <5s after short circuit disappear)		Hiccup, Continuous, self-recovery
Over Current Protection		110%- 150%Io, self-recovery
Over Voltage Protection	Vo 5V	≤6,3Vdc, (Clamping Protection)
	Vo 12V	≤16,2Vdc, (Clamping Protection)
	Vo 15V	≤21,75Vdc, (Clamping Protection)
	Vo 24V	≤33,6Vdc, (Clamping Protection)
Hold-up Time	Vin 115VAC	12ms min.
	Vin 230VAC	30ms min.

GENERAL SPECIFICATIONS:

Isolation Voltage (Test for 1min., leakage current<10mA) ...	Input-Output	4000Vac min.
	Input-PE	2000Vac min.
	Output-PE	1250Vac min.
Isolation Resistance (at 500Vdc)	Input-Output / Input-PE / Output-PE	50MΩ min.
Operating Temperature Range		-30°C to +70°C
Derating		see Derating Curve
Storage Temperature Range		-40°C to +85°C
Cooling		Free Air Convection
Humidity (non-condensing)		95%RH max.
Switching Frequency		65kHz typ.
Efficiency		see table
MTBF (MIL-HDBK-217@25°C).....		>300.000h

SAFETY:

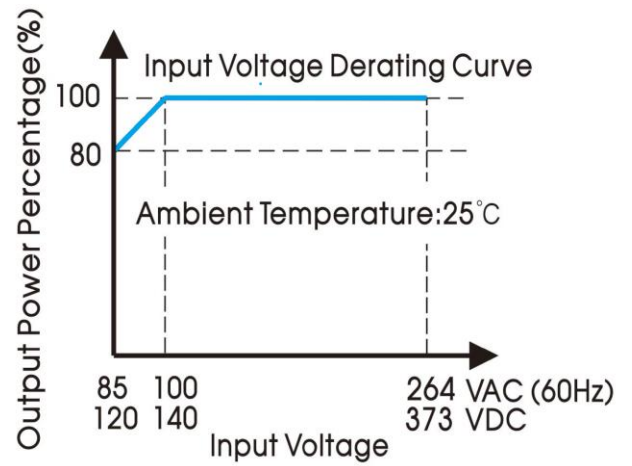
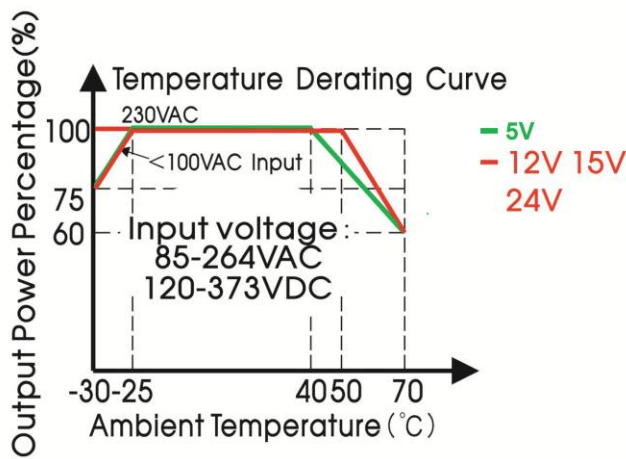
EMI	CE/RE	CISPR32/EN55032 Class B
Immunity	IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-11	
Safety Standards meet.....	IEC/EN60950-1 & IEC/EN/UL62368-1 & EN60335	
Safety Class.....		CLASS I

MECHANICAL SPECIFICATIONS:

Case Material		Metal
Dimension		99 x 82 x 30 (mm)
Weight.....		200g typ.

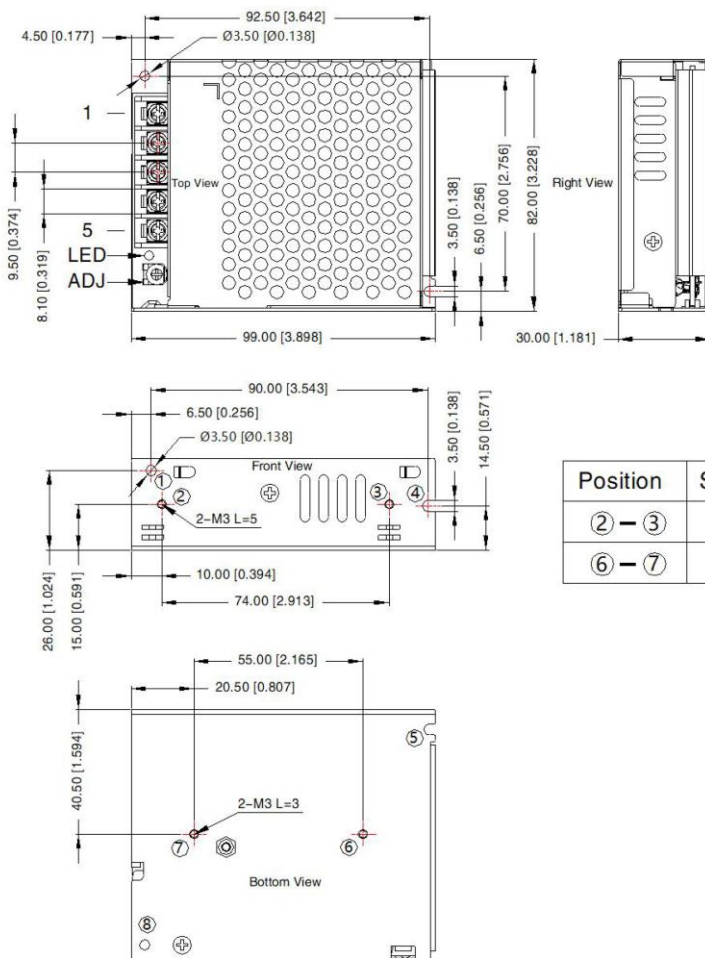
NOTE:

1. The "Tip and barrel method" is used for ripple and noise test, please refer to AC-DC Converter Application Notes for specific information.
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;
3. The out case needs to be connected to PE of system when the terminal equipment in operating.



Dimension

Note:
 Unit: mm [inch]
 Wire range: 22-12 AWG
 Tightening torque: M4, 1,2Nm
 General tolerances: ±1.00mm [±0.039]
 1-8 any position must be connected to PE



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

Position	Screw Spec.	L(max)	Torque(max)
② - ③	M3	5mm	0.4N·m
⑥ - ⑦	M3	3mm	0.4N·m

