



**35 Watt
AC/DC Enclosed Power Supply
Single Output
Series DVM35S-C-A3**



Features

- Input: 85 – 305VAC & 120 – 430VDC
- Regulated Output, Low Ripple & Noise
- Isolation I/O 4000VAC
- Over Voltage Class III (Meets EN61558)
- Meets Safety UL/IEC/EN62368
- Over Current / Over Voltage Protection
- Short Circuit Protection
- Safety Class I
- Meets CISPR32 / EN55032 Class B
- Meets 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]
DVM35S05-C-A3	5	7	4,5 – 5,5	0	86	35	8000
DVM35S12-C-A3	12	3	10,2 – 13,8		88	36	1500
DVM35S15-C-A3	15	2,4	13,5 – 18		86		1000
DVM35S24-C-A3	24	1,5	21,6 – 28,8		87		750

Note:

1. Nominal Input Voltage at 230Vac.

INPUT SPECIFICATIONS:

Input Voltage Range.....	85 to 305VAC / 120 to 430VDC
Input Frequency.....	47 to 63Hz
Input Current.....	115VAC 800mA / 230VAC 600mA max.
Inrush Current (Cold Start).....	115VAC 30A / 230VAC 50A typ.
Leakage Current.....	Vin 277VAC <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	150mVp-p typ.
Temperature Coefficient.....		±0,03%/°C typ.
Short Circuit Protection	Recovery after <5s after short circuit disappear	Hiccup or turn off, Continuous, self-recovery
Over Current Protection	230VAC, Rated load	≥110%Io, self-recovery
Over Voltage Protection	Vo 5V	≤6,3Vdc, (Hiccup, self-recovery)
	Vo 12V	≤16,2Vdc, (Hiccup, self-recovery)
	Vo 15V	≤21,75Vdc, (Hiccup, self-recovery)
	Vo 24V	≤33,6Vdc, (Hiccup, self-recovery)
Hold-up Time	Vin 115VAC	8ms min.
	Vin 230VAC	30ms min.

GENERAL SPECIFICATIONS:

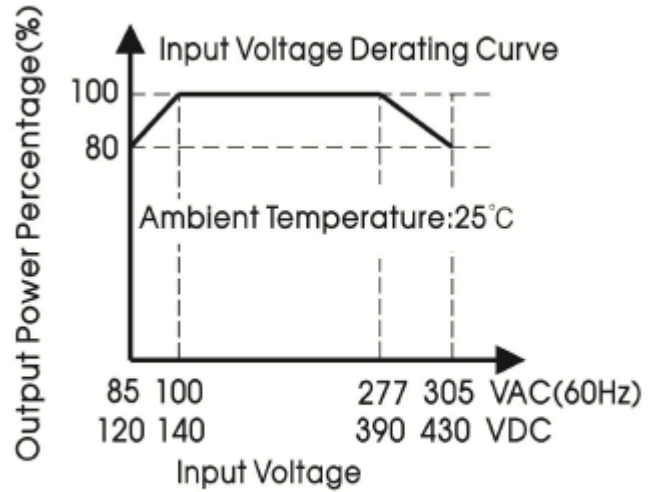
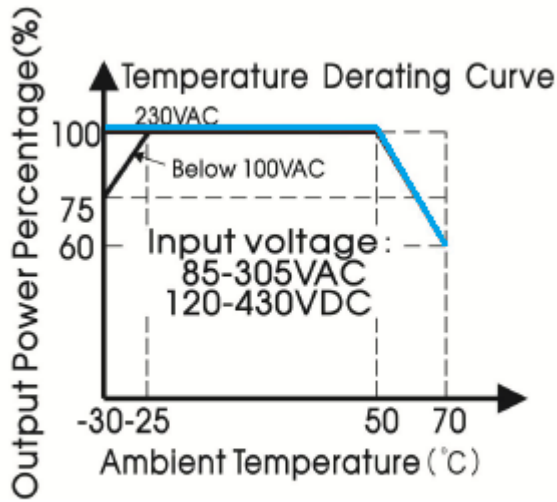
Isolation Voltage (Test for 1min., leakage current<10mA)	Input-Output	4000Vac min.
	Input-PE	2000Vac min.
	Output-PE	1250Vac min.
Isolation Resistance (at 500Vdc)	Input-Output / Input-PE / Output-PE	100MΩ min.
Operating Temperature Range		-30°C to +70°C
Derating		see Derating Curve
Input Voltage Derating		see Derating Curve
Storage Temperature Range		-40°C to +85°C
Cooling.....		Free Air Convection
Operating Humidity (non-condensing)		20% min. / 90% max.
Storage Humidity (non-condensing)		95% max.
Switching Frequency		65kHz typ.
Efficiency		see table
MTBF (MIL-HDBK-217@25°C).....		>300.000h
EMI.....	CE/RE	CISPR32/EN55032 Class B
	Harmonic Current	CISPR32/EN55032 Class B
Immunity	ESD	IEC/EN61000-4-2 Contact ±6KV/Air ±8KV
	RS	IEC/EN61000-4-3 10V/m
	EFT	IEC/EN61000-4-4 ±2KV
	Surge	IEC/EN61000-4-5 line to line ±2KV/line to ground ±4KV
	CS	IEC/EN61000-4-6 10 Vr.m.s
	Voltage dips, short interruptions and voltage variations immunity	IEC/EN61000-4-11 0%, 70%
Safety Standards Meets		IEC/EN/UL62368-1, EN60335, EN61558
Safety Class Meets		CLASS I

MECHANICAL SPECIFICATIONS:

Case Material	Metal
Dimension.....	99 x 82 x 30 (mm)
Weight.....	170g typ.

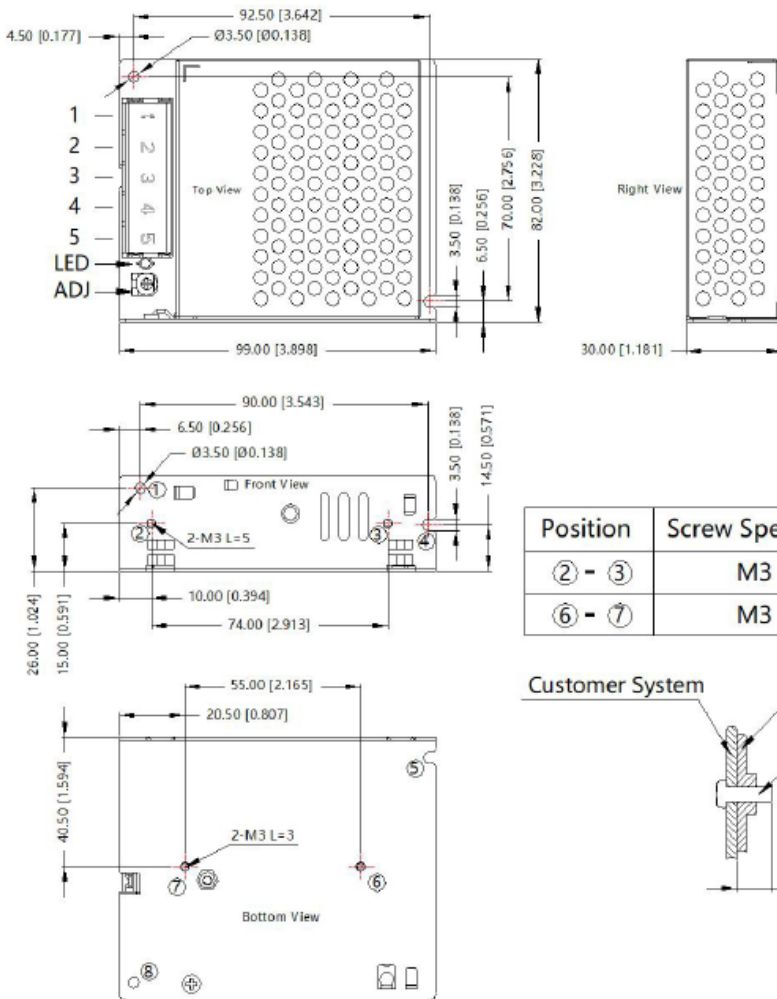
NOTE:

1. The "Tip and barrel method" is used for ripple and noise test, Output parallel 47uF electrolytic capacitor and 0.1uF ceramic capacitor, 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 room temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m;
4. 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: M3,5, 0,8Nm
General tolerances: ±1.00mm [±0.039]
1-8 any position must be connected to earth



Pin	Single Output
1	AC (L)
2	AC (N)
3	
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

