



**25 Watt
AC/DC Enclosed Power Supply
Single Output
Series DVM25S-C-A3**



Features

- Input: 85 – 305VAC & 100 – 430VDC
- Regulated Output
- No-Load Power Consumption <0,5W
- Isolation I/O 4000VAC
- Over Voltage Class III (Meets EN61558)
- Meets Safety UL/IEC/EN62368
- Over Current / Over Voltage Protection
- Short Circuit Protection
- Efficiency up to 88%
- Operating Temperature Range -30°C to +70°C
- Meets CISPR32 / EN55032 Class B
- Meets Safety Class I

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]
DVM25S3,3-C-A3	3,3	6	2,85 – 3,6	0	78	19,8	5000
DVM25S05-C-A3	5	5	4,5 – 5,5	0	81	25	4000
DVM25S12-C-A3	12	2,1	10,8 – 13,2	0	85	25	3000
DVM25S15-C-A3	15	1,7	13,5 – 16,5	0	86	25	2000
DVM25S24-C-A3	24	1,1	22 – 27,6	0	87	26	1000
DVM25S48-C-A3	48	0,57	42 - 54	0	88	27	500

Note:

1. Nominal Input Voltage at 230Vac.

INPUT SPECIFICATIONS:

Input Voltage Range.....	85 to 305VAC / 100 to 430VDC
Input Frequency.....	47 to 63Hz
Input Current.....	115VAC 600mA / 230VAC 340mA max.
Inrush Current (Cold Start).....	115VAC 20A / 230VAC 40A typ.
Leakage Current.....	Vin 277VAC <0,5mA

OUTPUT SPECIFICATIONS:

Voltage Accuracy (Full Load Range)	Vo 3,3V	±3,0% typ.
	Vo 5V	±2,0% typ.
Line Regulation.....	Other Outputs	±1,0% typ.
	Rated Load	±0,5% typ.
Load Regulation (0%-100% Load).....	Vo 3,3V/5V	±1,0% typ.
	Other Outputs	±0,5% typ.
Ripple & Noise (Note 1) (20MHz Bandwidth)	Vo Others	100mVp-p typ.
	Vo 48V	120mVp-p typ.
Temperature Coefficient.....		±0,03%/°C typ.
Stand-by Power Consumption	Vin 230VAC, Vo Others	0,3W max.
	Vin 230VAC, Vo 48V	0,5W max.
Short Circuit Protection	Recovery after <5s after short circuit disappear	Hiccup, Continuous, self-recovery
Over Current Protection		≥110%Io, self-recovery
Over Voltage Protection	Vo 3,3V	≤6,75Vdc, (Hiccup, self-recovery)
	Vo 5V	≤7,75Vdc, (Hiccup, self-recovery)
	Vo 12V	≤16,2Vdc, (Hiccup, self-recovery)
	Vo 15V	≤20,25Vdc, (Hiccup, self-recovery)
	Vo 24V	≤32,4Vdc, (Hiccup, self-recovery)
	Vo 48V	≤60Vdc, (Hiccup, self-recovery)
Hold-up Time	Vin 115VAC	8ms min.
	Vin 230VAC	60ms 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).....		>450.000h
EMI	CE/RE	CISPR32/EN55032 Class B
	ESD	IEC/EN61000-4-2 Contact ±6KV/Air ±8KV
Immunity	RS	IEC/EN61000-4-3 10V/m
	EFT	IEC/EN61000-4-4 ±2KV
Voltage dips, short interruptions and voltage variations immunity	Surge	IEC/EN61000-4-5 line to line ±1KV/line to ground ±2KV
	CS	IEC/EN61000-4-6 10 Vr.m.s
Safety Standards Meets.....		IEC/EN/UL62368-1
Safety Class Meets		CLASS I

MECHANICAL SPECIFICATIONS:

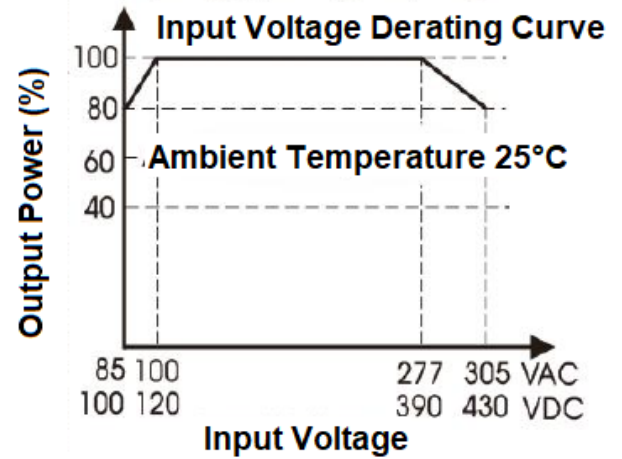
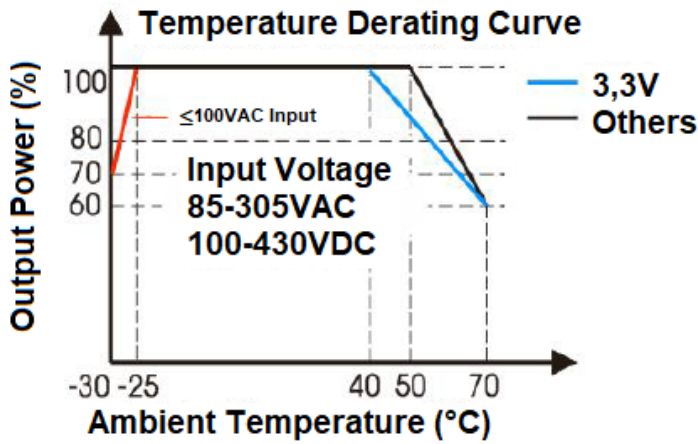
Case Material	Metal
Dimension	80 x 55 x 25 (mm)
Weight.....	115g typ.

NOTE:

- 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.
- 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;
- The ambient temperature derating of 3.5°C/1000m is needed for operating altitude greater than 2000m;
- The out case needs to be connected to earth of system when the terminal equipment in operating.

Derating Curve

Series DVM25S-C-A3



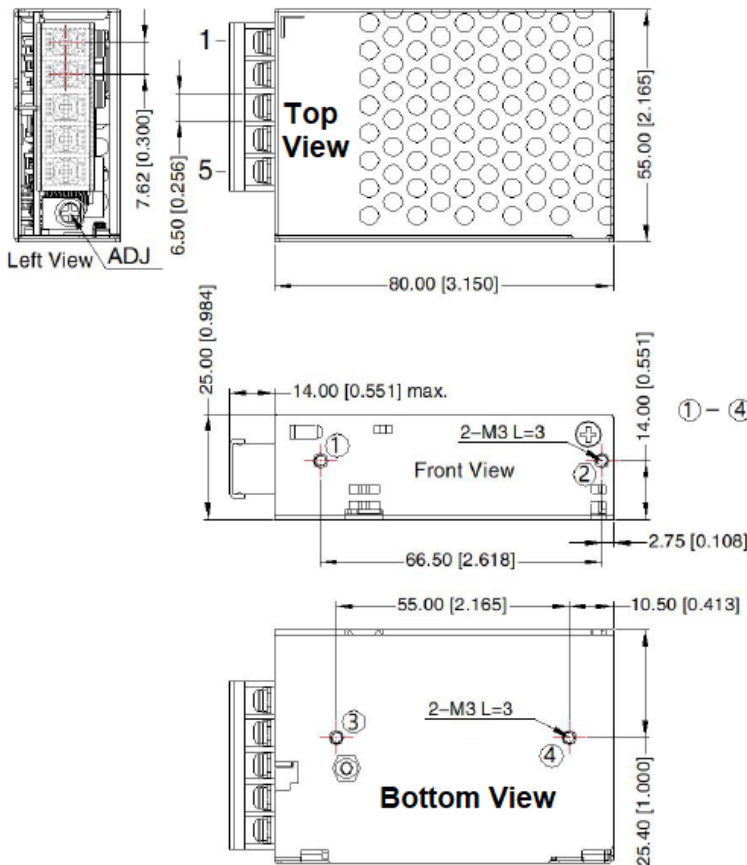
Note:

1. With an AC input between 85-100V/277-305VAC and a DC input between 100-120VDC/390-430VDC, the output power must be derated as per temperature derating curves;
2. This product is suitable for applications using natural air cooling; for applications in closed environment please consult factory or one of our FAE.

Dimension

Note:

- Unit: mm [inch]
- Wire range: 22-12 AWG
- Tightening torque: M3,5, 0,4Nm
- General tolerances: $\pm 1.00\text{mm}$ [± 0.039]
- 1-4 any position must be connected on earth



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

① - ④ any position must be connect on earth ()

Position	Screw Spec.	L(max)	Torque(max)
① - ④	M3	3mm	0,4N·m

