



**200 Watt
AC/DC Enclosed Power Supply
Single Output
Series DVM200S-C-A3**



Features

- Input: 85 – 305VAC & 120 – 430VDC
- Operating Temperature Range -30°C to +70°C
- Built-in Active PFC Function
- Isolation I/O 4000VAC
- Efficiency to 90%
- Meet Safety UL/IEC/EN62368-1
- Over Current / Over Voltage Protection
- Over Temperature Protection
- Short Circuit Protection
- LED Indicator Power ON
- Meet CISPR32 / EN55032 Class B
- Meet EN60335-1

MODEL NUMBER	OUTPUT VOLTAGE / OUTPUT CURRENT MAX. (V_o / I_o)	OUTPUT VOLTAGE ADJUSTABLE RANGE [V]	EFF. TYP. [%] Note 1	OUTPUT POWER [W]	CAP. LOAD MAX. [μ F]
DVM200S12-C-A3	12V/16,7A	11,4-12,6	88	200	4000
DVM200S15-C-A3	15V/13,4A	14,25-15,75	88	200	3300
DVM200S24-C-A3	24V/8,4A	22,8-25,2	90	200	1500
DVM200S36-C-A3	36V/5,6A	34,2-37,8	89	200	1000
DVM200S48-C-A3	48V/4,2A	45,6-50,4	89	200	470

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 3,0A / 230VAC 2,0A max.
Inrush Current.....	Cold start 115VAC 35A / 230VAC 65A typ.
Power Factor (at Full Load)	115VAC 0,98 typ.
	230VAC 0,95 typ.

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....	Full Load Range	±1,0% typ.
Line Regulation.....	Rated Load	±0,5% typ.
Load Regulation	230VAC, 0%-100% Load	±0,5% typ.
Ripple & Noise (Note 1) (20MHz Bandwidth)	Vo 12V/15/24V	150mVp-p max.
	Vo 36/48V	240mVp-p max.
Stand-by Power Consumption	Normal Temperature, 230VAC	0,75W typ.
Temperature Coefficient.....	0°C to 45°C	±0,03%/°C typ.
Minimum Load		0%
Short Circuit Protection Recover Time <5sec after short circuit disappear		Hiccup, Continuous, self-recovery
Over Current Protection (Note 2).....		105%-200%Io, self-recovery
Over Voltage Protection	Vo 12V	≤ 16,2V (Output Voltage turn-off, re-power on for recovery)
	Vo 15V	≤ 21,8V (Output Voltage turn-off, re-power on for recovery)
	Vo 24V	≤ 32,4V (Output Voltage turn-off, re-power on for recovery)
	Vo 36V	≤ 46,0V (Output Voltage turn-off, re-power on for recovery)
	Vo 48V	≤ 60,0V (Output Voltage turn-off, re-power on for recovery)
Over Temperature Protection (Note 3)	Protection Activation	85°C max.
	Protection Deactivation	55°C min.
Hold-up Time	Normal Temperature, Full Load	8ms min.

GENERAL SPECIFICATIONS:

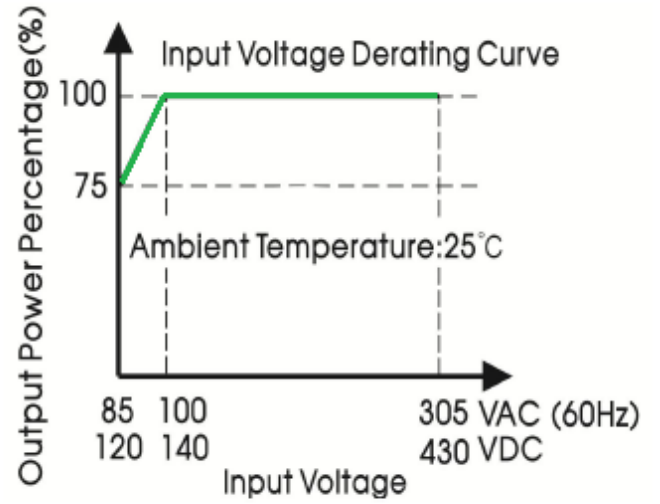
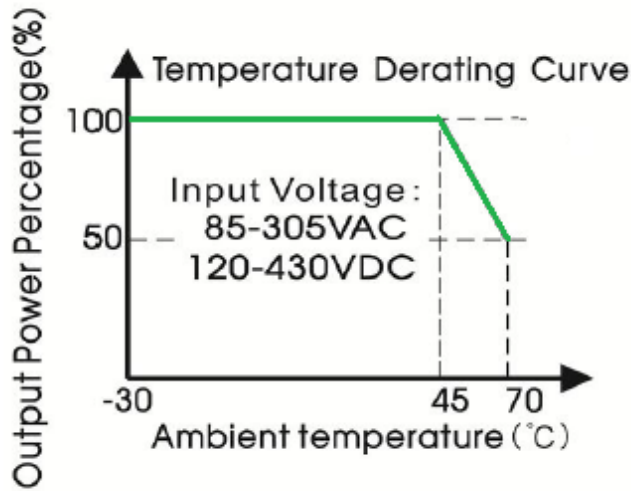
Isolation Voltage (Vo 36: Test for 1min., leakage current<10mA)....	Input-Output	4000Vac min.
(Other Vo: Test for 1min., leakage current<3mA)	Input-Output	4000Vac min.
	Input-PE	2000Vac min.
	Output-PE	500Vac min.
Insulation Resistance (500Vdc,25°C±5%)	Input-Output/In.-PE/Out.-PE	100MΩ min.
Operating Temperature Range		-30°C to +70°C
Power Derating (see Derating Curve)	+45°C to +70°C	2,0%/°C min.
Input Voltage Derating	85VAC-100VAC	2,0%/VAC min.
	120VDC-140VDC	1,25%/VAC min.
Storage Temperature Range		-40°C to +85°C
Cooling.....		Free Air Convection
Storage Humidity (non condensing)		90% max.
Operating Humidity (non condensing)		95% max.
Efficiency		see table
MTBF (MIL-HDBK-217@25°C).....		>250.000h
EMI.....	CE/RE	CISPR32/EN55032 Class B
	Harmonic Current	IEC/EN61000-3-2 Class A
	Voltage Flicker	IEC/EN61000-3-3
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 & EN60335
Safety Class.....		CLASS I

MECHANICAL SPECIFICATIONS:

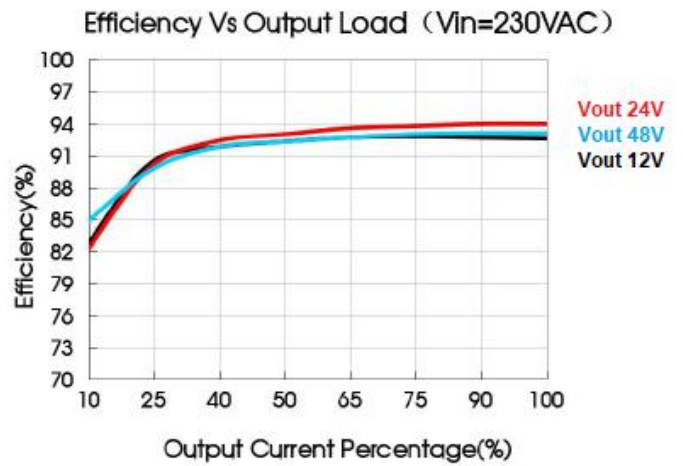
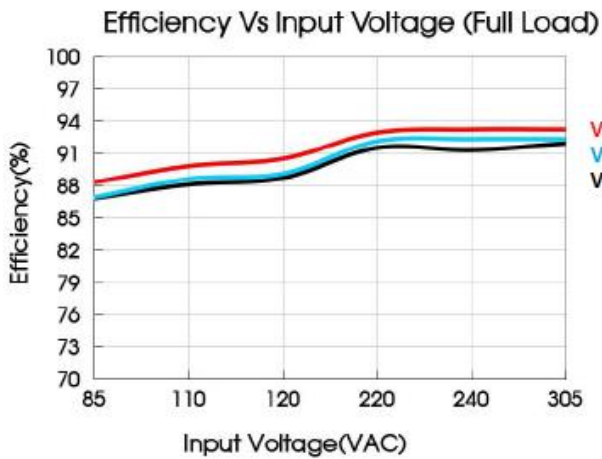
Case Material		Metal
Dimension		179 x 99 x 30 (mm)
Weight.....		475g typ.

NOTE:

- The "Tip and barrel method" is used for ripple and noise test, (47µF electrolytic capacitor and 0,1µF ceramic capacitor) please refer to enclosure and guide rail Converter Application Notes for specific information.
- Over-current Protection: Test at rated output voltage, Io is rated output current load.
- Over-temperature Protection needs to be tested under rated full load conditions.
- One magnetic bead(nickel-zinc ferrite)should be coupled with the output load line during CE/RE testing;
- The power supply is considered a component as part of system, all EMC items are tested on a metal plate (L x W x H, 450mm x 450mm x 3mm). Power supply should be combined with final equipment for EMC confirmation.
- 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 out case needs to be connected to PE of system when the terminal equipment in operating.



Note: 1. With an AC input voltage between 85-100VAC and a DC input between 120-140VDC, the output power must be derated as per the temperature derating curves;



Dimension

Series DVM200S-C-A3

Note:

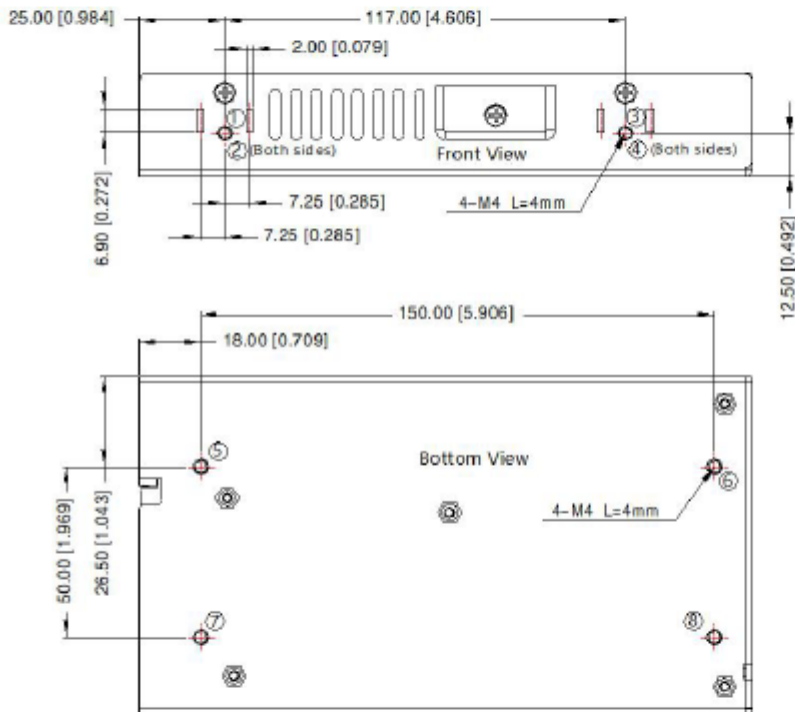
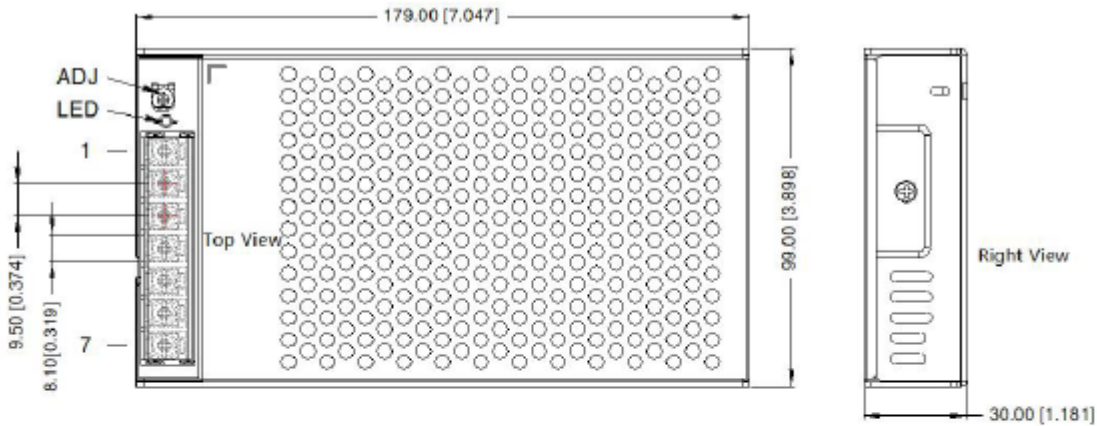
Unit: mm [inch]

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 (PE).



Pin	Single Output
1	+Vo
2	+Vo
3	-Vo
4	-Vo
5	PE \perp
6	AC (N)/DC(-)
7	AC (L)/DC(+)

① – ⑧ any position must be connected to the earth(\perp)

Position	Screw Spec.	L(max)	Torque(max)
① – ⑧	M4	4mm	0.9N·m

