



**5 Watt, AC&DC Universal Input Modules, PCB mounting
Series DV5U-MP**



Features

- Universal Input Range 21,6 – 28,8/85 – 264 VAC & 18 – 288 VDC
- Single Outputs, Regulated
- Isolation I/O 3,75K VAC
- Insulation Grade Reinforced ES1/SELV
- Output Circuit Classification ES1/PS1 (LPS)
- Case 52,5x27,3x23,8 (mm)
- Operating Tem. Range -40°C to +85°C
- Safety IEC/EN62368
- Over Voltage Category OVC II
- EN61000-6-2, EN61000-6-3, EN55032 Class B

MODEL NUMBER	INPUT VOLTAGE [VAC / VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT MAX. [mA]	CAPACITIVE LOAD MAX. [μ F]	EFF. TYP. [%]	CASE [mm]
DV5U-S05MP (Note1)	21,6 – 28,8 VAC & 85 – 264 VAC & 18 – 288 VDC	5	1000			52x36,5x25,5
DV5U-S12MP (Note1)		12	416			
DV5U-S15MP (Note1)		15	333			
DV5U-S24MP		24	208	200	68	
DV5U-S48MP (Note1)		48	104			

Note: 1. On Request

INPUT SPECIFICATIONS:

Input Voltage.....	21,6 – 28,8 VAC & 85 – 264 VAC & 18 – 288 VDC
Input Frequency.....	47 – 64 Hz / 47 – 400Hz / 0 Hz

OUTPUT SPECIFICATIONS:

Output Voltage Accuracy	±3,5%
Output Current Min.....	0 mA
Output Power Max.....	Input Voltage 85 – 264VAC & 21,6 – 264 VDC 5 Watt
	Input Voltage 21,6 – 28,8 VAC 4 Watt
	Input Voltage 18 – 21,6 VDC 3 Watt
Ripple & Noise.....	I load=I nom.; BW=20MHz ≤ 100mVp-p typ.
Load Regulation	10% - 90% Inom. ±2,0% max.
Line Regulation.....	at full load ±1,0% max.
Temperature Coefficient.....	..... 0,04%/K max.
Short Circuit Protection	continuous (hiccup mode)

GENERAL SPECIFICATIONS:

Efficiency .....	..... see table
Isolation Voltage I/O.....	..... 3,75K VAC min.
Switching Frequency	Vin 24VAC / 230VAC 90 KHz / 60 KHz typ.
Operating Temperature Range.....	..... -40°C to +85°C
Derating	Input Range 21,6 to 22,8 VAC from 62,5°C: 3,3%/°C ; see derating curve
	Input Range 22,8 to 28,8 VAC from 68°C: 4,5%/°C ; see derating curve
	Input Range 85 to 253 VAC from 62,5°C to 70°C: 3,6%/°C ; see derating curve
	Input Range 18 to 21,6 VDC from 70°C: 4,5%/°C ; see derating curve
	Input Range 21,6 to 100 VDC from 62,5°C: 3,6%/°C ; see derating curve
	Input Range 100 to 264 VDC from 62,5°C to 70°C: 3,6%/°C ; see derating curve
Over Temperature Protection .....	..... Yes
Over Voltage Category.....	..... OVC II
Reinforced Insulation Grade Approved .....	..... ES1/SELV
Output Circuit Classification Approved .....	..... IEC/EN62368 ES1/PS1(LPS)
Storage Temperature Range .....	..... -40°C to +105°C
Interference immunity.....	EN61000-6-2
	ESD Electrostatic discharge EN61000-4-2
	RF field susceptibility EN61000-4-3
	Burst (±2KV) EN61000-4-4
	Surge (±1KV symmetrical, ±2kV asymmetrical) EN61000-4-5
	HF fields conducted disturbances EN61000-4-6
	Voltage interruption..... EN61000-4-11
EMI/RFI Conducted.....	EN61000-6-3 (EN55022 Class B)
Electrical Safety (in Accordance with ).....	..... IEC/EN62368-1
Dimension (L x W x H ) .....	..... 52 x 36,5 x 25,5 mm
Case Material .....	..... Plastic (UL94V-0)

Technical Data at Ta=25°C and Vin=230Veff unless otherwise specified.

Note:

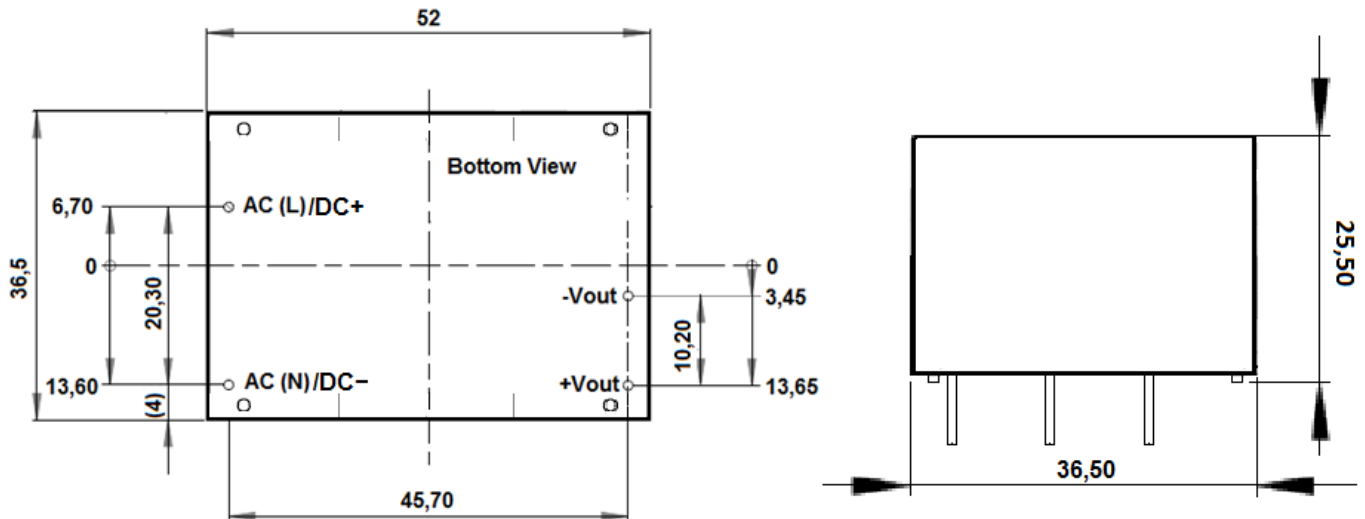
Installation requirement: According to EN62368, the input circuit must be protected by a fuse in the phase (L) connection.

Type: SIBA 160016.1 (1A, slow blow)

MECHANICAL DIMENSION

Series DV5U-MP

Bottom View. Pin diameter = 1.0 mm (0.04 Inch)
Pin pitch tolerance: ± 0.3 mm (0.012 Inch)



Derating Curve

Series DV5U-MP

