



30 Watt, regulated AC/DC Screw Terminal Modules Series DVAC30



Features

- Wide Input Range 90 – 264 VAC
- Single, Dual & Triple Outputs, Regulated
- Meets IEC/EN 62368-1
- Operating Temperature Range -25°C to +85°C
- Isolation I/O 3,75K VAC
- EN 55032 Class B / CE Conformity

MODEL NUMBER	INPUT VOLTAGE RANGE [VAC / VDC]	Vout1 [VDC]	Iout1 MAX. [mA]	MIN. LOAD [A]	Vout2 [VDC]	Iout2 MAX. [mA]	Vout3 [VDC]	Iout3 MAX. [mA]	EFF. [%]
DVAC30-S05	90 – 264 / 100 – 370	5	6000	0					80
DVAC30-S24		24	1250	0					82
DVAC30-D524		5	3000	0,4	+24	600			80

Note:

Other Outputs on request.

Optional: Operating Temperature Range -40°C to +85°C

INPUT SPECIFICATIONS:

Input Voltage.....	90 – 264VAC / 100 – 370VDC
Input Frequency.....	47 – 400Hz / 0 Hz
Input Transient..... (Burst / Surge sym.)	1KV
Hold-up Time	Vin 230Vac >50 ms

OUTPUT SPECIFICATIONS:

Output Voltage Accuracy	Vout1	±2,0%
	Vout2 / Vout3	±3,0%
Ripple	I load=I nom.; BW=1MHz	≤1%
Noise	I load=I nom.; BW=30MHz	≤2%
Temperature Coefficient.....	-25°C ≤ Ta ≤ +70°	0,02%/K max.
Response Time	(10% - 90%)*Inom	≤4ms
Short Circuit Protection		continuous
Line Regulation.....	Vin Max. – Vin Min.	≤0,5%
Load Regulation (I load=(10% - 90%)*Inom)	Vout1	≤0,5%
	Vout2	≤3,0%

GENERAL SPECIFICATIONS:

Efficiency		see table
Isolation Voltage.....	Input/Output	3,75K VAC
Isolation Voltage DVAC30-D524	Vout1/Vout2	0,5K VAC
Switching Frequency	Vout Single	130 KHz max.
	Vout Dual	150KHz max. / 470KHz
Operating Temperature Range.....		-25°C to +85°C
Derating above 70°C.....	Other Models.....	2,5%/K
Derating above 60°C.....	DVAC30-D524.....	2,0%/K
Max.Case Temperature		100°C
Storage Temperature Range		-40°C to +105°C
Cooling.....		Convection
EMI Emissions	EN61000-6-2, EN61000-6-3, EN55032 Class B	
EMS Immunity	EN61000-4-2,-3,-4,-5,-6,-11	
Electrical Safety (in Accordance with)	IEC/EN 62368-1 & IEC/EN60950-1	
Dimension (L x W x H)		115 x 66,5 x 30,8 (mm)
Case Material		PCGF20 (UL94-V0)
Weight.....		380g
Diameter of Flying Leads		2,5 mm ²

Note:

Installation requirement: According to EN60950-1 & EN62368-1 is mains in the phase line (L) a fast-acting fuse 3,15A should be.
Proposal:

The DVAC Module should be screwed on the PCB with 2 lens screws (3,5x8). Max. depth: ≤7,5mm !

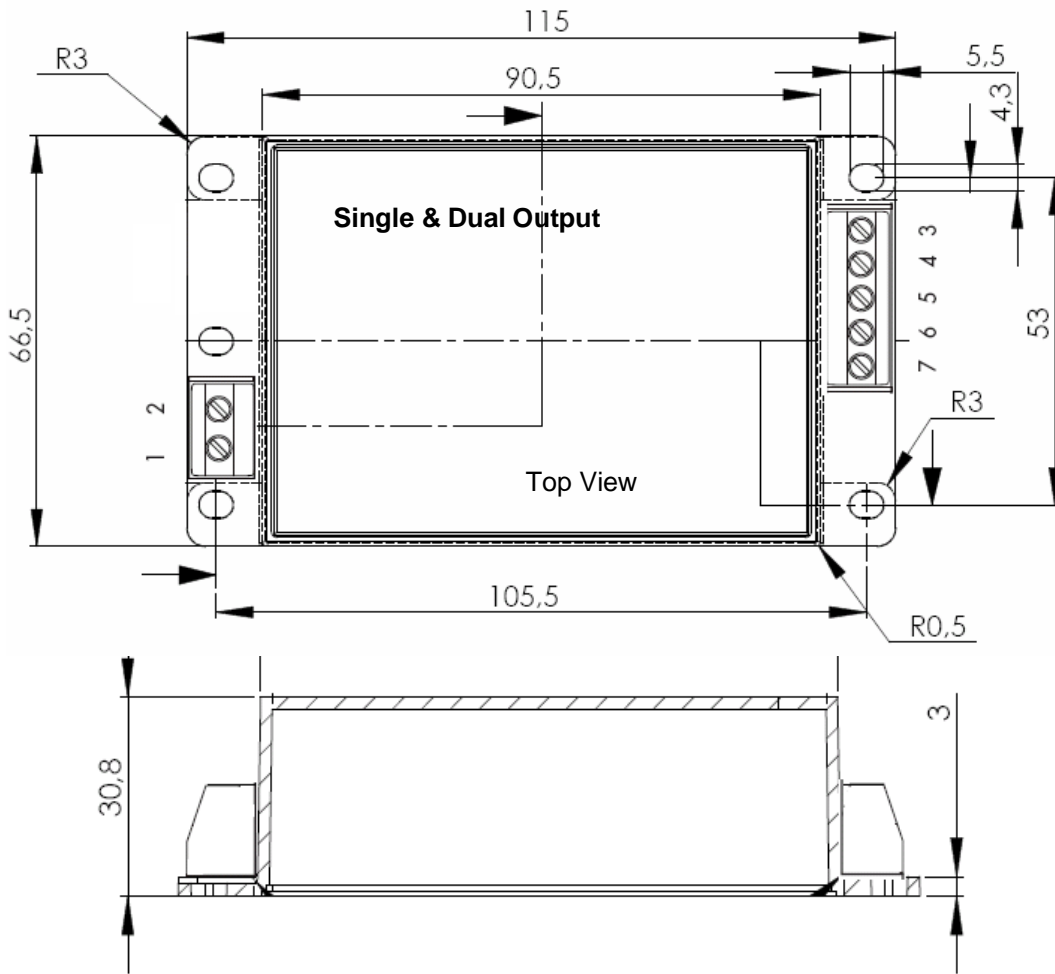
Recommended screw: Lens screw KT-S 3,5x8, cross-recessed.

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

Dimension

Series DVAC30

All Dimensions in mm
Tolerance: $\pm 0,5$ mm



Pin	Single	Dual Asym.
1	INPUT AC	INPUT AC
2	INPUT AC	INPUT AC
3		+Vout2
4		GND Vout2
5	+Vout1	+Vout1
6	GND Vout1	GND Vout1
7	NP or NC	NP or NC

Pin	Triple Output
1	INPUT AC
2	INPUT AC
3	-15VDC
4	GND
5	GND
6	+5VDC
7	+15VDC

NP: No Terminal
NC: No Connection with Terminal