

LOY-POW2404

Datasheet #89099702



LOY-POW2404 are robust AC/DC modules with 24 V DC output for a maximum power of 4 W for supply of LOYBT-MSx multi-sensors.

Features

- Nominal input voltage from 100-277 V AC
- Output voltage 24 V DC
- 4W rated load (167mA@24V DC) up to +80°C
- Enhanced surge ratings of 2kV (L-N); 4kV (L-PE)
- OVC III overvoltage category up to 3000m altitude
- 6 watt boost power up to 20s
- IP65 rated
- EN55032 class B; floating or earth referenced
- 3 year warranty
- 2x 3-pole WAGO terminals included

Specifications

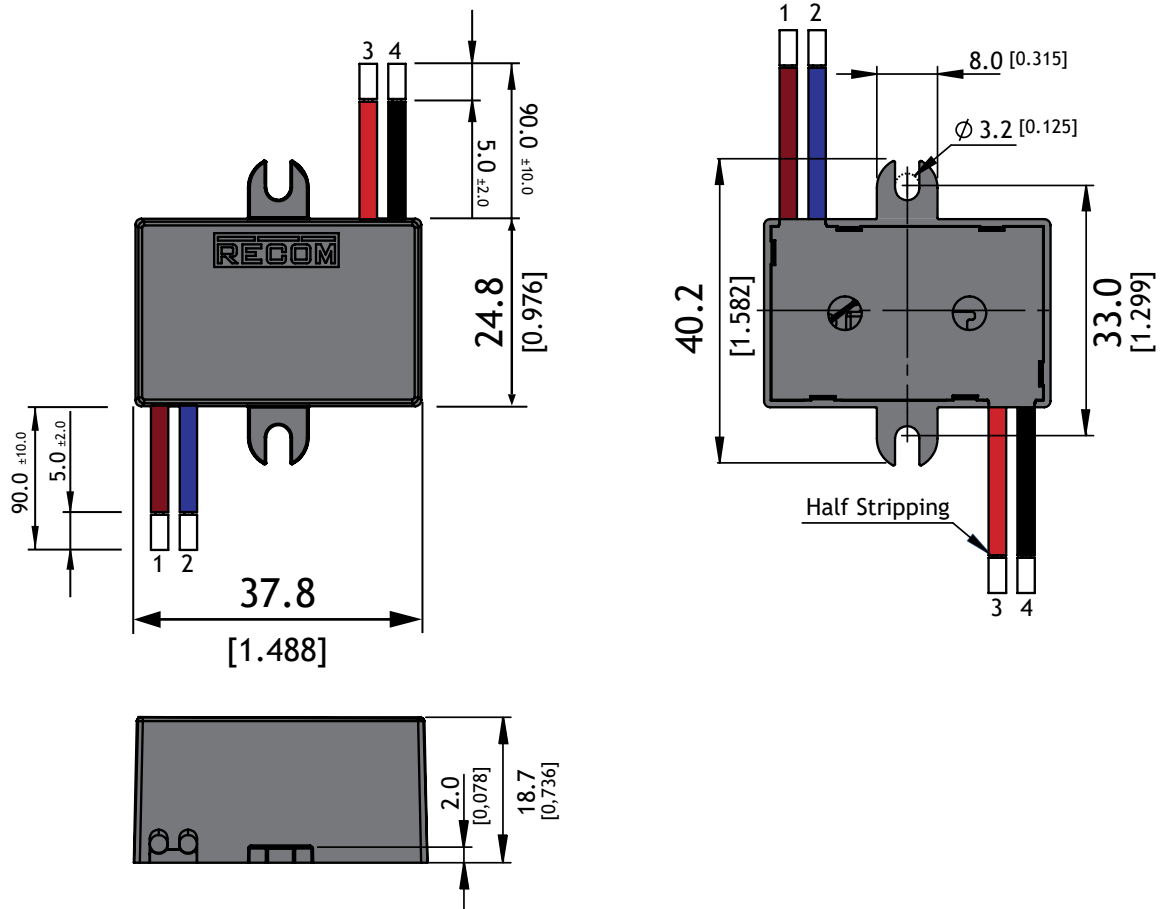
Dimensions (mm)	37 x 24 x 18 (L x W x H), DIM055
Installation	Installation/distribution box
Output Voltage	24 V DC, 4 W, 167 mA
Nominal Input Voltage	100-277 V AC, 50/60Hz
Operating Range	85-305 V AC @ 47-63Hz; 120-430 V DC
Input Current	90 mA @ 115 V AC, 50 mA @ 230 V AC, 45 mA @ 277 V AC
Inrush Current (cold start at 25°C)	10 A @ 115 VAC, 20A @ 230 V AC, 25A @ 277 V AC
No Load Power Consumption	75 mW
Ecodesign Standby Mode Use (Available output power for stated input power)	$P_{IN} = 0.5W$, min 0.31W; $P_{IN} = 1.0W$, min 0.66W
Power Factor	115 V AC typ. 0.6; 230 V AC typ. 0.47; 277 V AC typ. 0.44
Internal Operating Frequency	124-140 kHz, typ. 132 kHz
Output Ripple and Noise	20 MHz BW, max 1% of Vout
Input Fuse	internal, fusible resistor 20Ω
Protections	SCP, OVP, OCP, OVC: according to 61558-1, OVC II (5000m), OVC III (3000m)
Class of Equipment	Class II
Isolation Voltage	1 minute, according to 61558: 4.2 kVAC; 1 minute, according to 62368-1: 6 kVAC;
Insulation Grade	reinforced
Operating Conditions	-40°C to +80°C, 10 – 90 % RH, noncondensing, degree of protection: IP65, Maximum case temperature: +110°C
Storage Conditions	-40°C to +90°C
Pollution Degree	PD2
MTBF	according to MIL-HDBK-217, G.B.: $T_{AMB} = +25^{\circ}$, 2260 x 103 hours; $T_{AMB} = +40^{\circ}$ C, 2040 x 103 hours
Design Lifetime	230 VAC and full load, $T_{AMB} = +50^{\circ}$, 110 x 103 hours
Certification	contains UL registered products of RECOM and WAGO
For use with	LOYBT-MSx

Order number Product description

LOY-POW2404	Power Supply, 4 W, 100-277 V AC, 24 VDC, 167 mA
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Dimensions of the devices in mm and [inch]

DIM055 LOY-POW2440



Wire information

#	Function	Wire color	Type	Wire Cross Section
1	VAC in (L)	brown	UL-1015	22AWG (0.318mm ²)
2	VAC in (N)	blue	UL-1015	22AWG (0.318mm ²)
3	+Vout	red	UL-1015	22AWG (0.318mm ²)
4	-Vout	black	UL-1015	22AWG (0.318mm ²)



The products of LOYTEC electronics GmbH are subject to constant development. Therefore, LOYTEC reserves the right to modify technical specifications at any time without prior notice. The most recent datasheet can be downloaded from www.loytec.com.