



FEATURES:

- RoHS compliant
- Switching power modules for PCB mounting
- Fully encapsulated plastic case
- Universal input: 90-260VAC, 47-440Hz, or 120-370VDC
- Soft start
- High efficiency
- Standard package
- UVLO / OVLO Shutdown

Models

Single output

Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Output Voltage (V)	Max Output wattage (W)	Output Current max (A)	Minimum load (%)	Efficiency (%)
AMEL05-3.3SZ	90-260/47-440	120-370	3.3	4	1.25	0	64
AMEL05-5SZ	90-260/47-440	120-370	5	5	1	0	67
AMEL05-12SZ	90-260/47-440	120-370	12	5	0.42	0	73
AMEL05-15SZ	90-260/47-440	120-370	15	5	0.333	0	73
AMEL05-24SZ	90-260/47-440	120-370	24	5.5	0.23	0	75

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Current (full load)	115 VAC		110	mA
	230 VAC		70	mA
Inrush current <2ms	115 VAC		10	A
	230 VAC		20	A
Leakage current			0.75	mA
External fuse	Recommended slow blow type	1.5		A

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		±2		%
Line regulation			±0.3	%
Load regulation			±0.5	%
Maximum capacitive load	Depending of the model	470-23 000		µF
Noise			0.5 %Vout + 50 m V	
Ripple			0.2 %Vout + 40 m V	
Hold-up time (min)		15		ms

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Input / Output		3000		VAC

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		132		KHz
Over current protection	Auto recovery	Hiccup		
Over voltage protection		Zener diode clamp		
Short circuit protection	Auto recovery	Hiccup mode, indefinite		
Operating temperature	With derating above 50°C	-25 - +70		°C
Storage temperature		-40 to +85		°C
Temperature coefficient		0.02		% / °C

General Specifications (continued)

Parameters	Conditions	Typical	Maximum	Units
Cooling	Free air convection			
Humidity	Non condensing		95	% RH
Case material	Plastic resin + Fibreglas (flammability to UL 94V-0)			
Weight		30		g
Dimensions		2.0 x 1.0 x 0.597 inches	50.8 x 25.4 x 15.16 mm	
MTBF		> 360 000 hrs (MIL-HDBK -217F, $t=+25^{\circ}\text{C}$)		

Safety Specifications

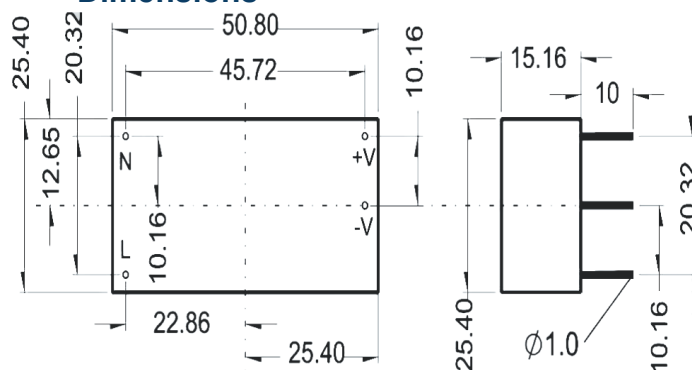
Standards

Safety	EN55022, class B (EMI - Conducted and radiated emission), EN55024 (EMS - Noise immunity)
Agency approvals	cULus, CE

Pin Out Specifications

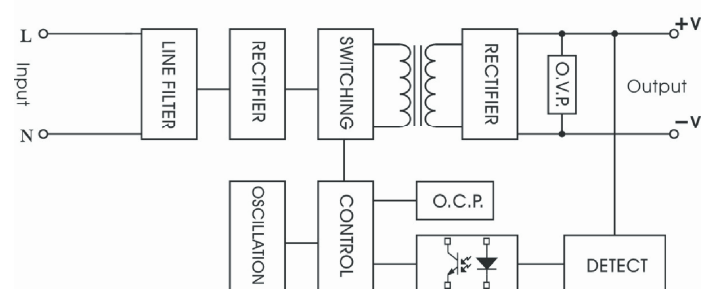
Pin	Single
N	AC Input
L	AC Input
+V	+DC Output
-V	-DC Output

Dimensions



Block diagram

Single Output



Power Derating Curve

