

AMPLPULS

AMQR120□N Series



▲ Features

- Universal AC input/Full range
- Protections:short circuit/overload/over voltage/over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- 100% full load burn in-test
- 3 years warranty

▲ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus

▲ Model Encoding

AMQR

Model name

120

Output wattage

24

Output voltage

F

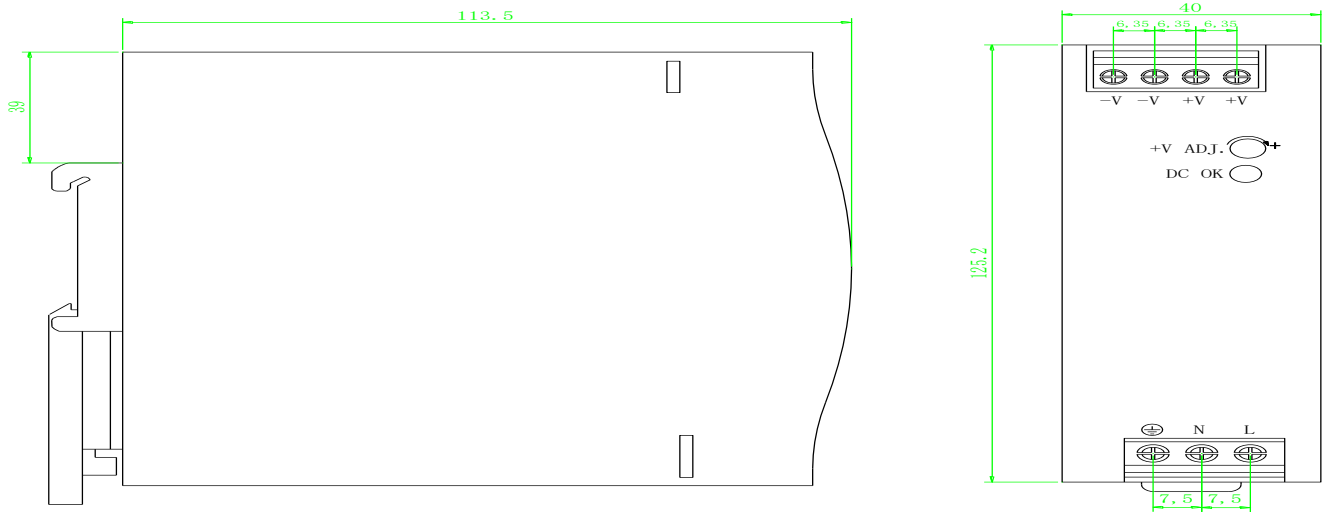
Input voltage rating

AMLPULS

Specifications

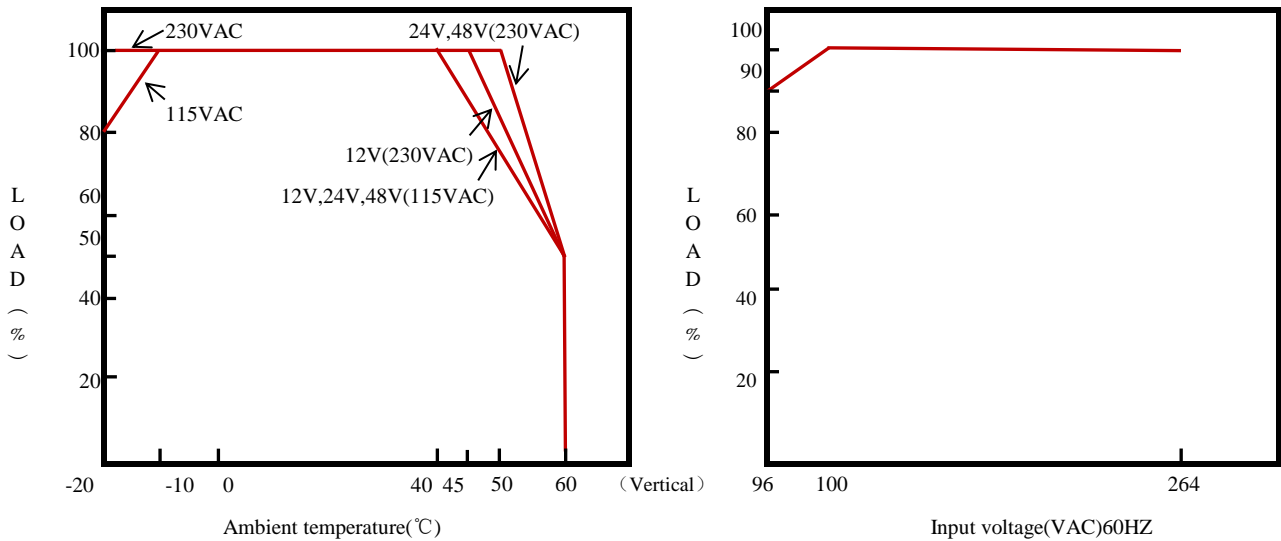
Input			
Voltage range <small>Note.1</small>	96-264VAC 120-370VDC		
AC current	2.25A/115VAC 1.3A/230VAC		
Frequency range	47-63Hz		
Inrush current (max)	20A/115VAC 35A/230VAC		
Output			
DC voltage (V)	12V	24V	48V
Efficiency	84%	87%	88%
Rated Current (A)	10A	5A	2.5A
Rated power(W)	120W	120W	120W
Voltage ADJ. range	12-14V	24-28V	48-55V
Ripple & noise(max) <small>Note.2</small>	100mVp-p	120mVp-p	150mVp-p
Voltage tolerange <small>Note.4</small>	±2%	±1%	±1%
Line regulation	±0.5%	±0.5%	±0.5%
Load regulation	±1%	±1%	±1%
Setup, rise time	1200ms 60ms/230VAC 2500ms 60ms/115VAC(at full load)		
Hold up time	16ms/230VAC 10ms/115VAC(at full load)		
Status indicator	Green LED		
Protection			
Overload	105%-130% rated output power		
	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
Over voltage(V)	14-17V	29-33V	56-65V
	Protection type:Shut down O/P voltage ,re-power on to recover		
Over temperature	Shut down O/P voltage ,re-power on to recover		
Safety and EMC			
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Isolation resistance	I/P-O/P,I/P-FG,O/P-FG :100M Ohms/500VDC/25℃/70% RH		
Safety standards	60950-1、GB4943.1		
EMC emission	Compliance to EN55032(CISPR32)EN61204-3 Class B,EN61000-3-2,-3		
EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024,EN61000-6-2 (EN50082-2),EN61204-3, heavy industry level, criteria A		
Environmental			
Working temperature	- 20~+60 ℃ (Refer to "Derating curve ")		
Storage temperature	- 40~+85℃		
Storage humidity	10-95% RH		
Vibration	Component:10-500Hz,2G 10 min/1cycle ,60 min each along X,Y,Z axes		
Others			
Mean time between failure	474.6K hrs min MIL-HDBK-217F(25℃)		
Installation	Install on DIN rail TS35		
Protection class	IP20		
Weight	0.65kg		
Length*width*height	125.2*40*113.5mm		
Data	Details	Model name	
	AMQR 120W 10A/12V	AMQR12012N	
	AMQR 120W 5A/24V	AMQR12024N	
	AMQR 120W 2.5A/48V	AMQR12048N	

Installation Instruction



Tightening Torque Max. :10.35 kgf-cm (9 Lb-in)

Derating curve



Note:

1. Derating may be needed under low input voltage. Please check the derating curve for more details.
2. Ripple & noise are measured at 20MHZ of bandwidth by using a "12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
4. Tolerance: includes set up tolerance, line regulation and load regulation.
5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives
7. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.