AMLPULS®

AMQR075□N Series



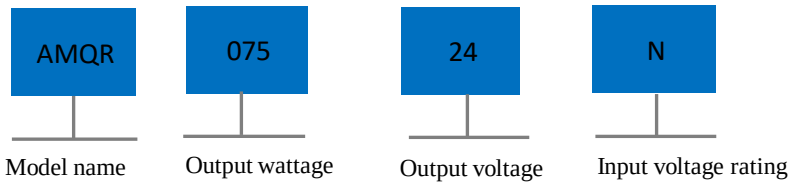
▲ Features

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



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Specifications

Input			
Voltage range Note.1	96-264VAC 120-370VDC		
AC current	1.45A/115VAC 0.9A/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)	6.3A	3.2A	1.6A
Rated power(W)	75.6W	76.8W	76.8W
Voltage ADJ. range	±10%		
Ripple & noise(max) Note.2	80mVp-p	120mVp-p	150mVp-p
Voltage tolerange Note.4	±2%	±1%	±1%
Line regulation	±0.5%	±0.5%	±0.5%
Load regulation	±1%	±1%	±1%
Setup，rise time	1200ms 60ms/230VAC 2000ms 60ms/115VAC(at full load)		
Hold up time	60ms/230VAC 12ms/115VAC(at full load)		
Status indicator	Green LED		
Protection			
Overload	The rated output power is 105%-130%		
	Protection mode: Constant current limiting, recovers automatically after fault condition is removed		
Over voltage(V)	14-17V	29-33V	56-65V
	Protection mode:Shut down O/P voltage ,re-power on to recover		
Over temperature	Protection mode: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/cycle ,60 min each along X,Y,Z axes		
Others			
Mean time between failure	506.6K hrs min MIL-HDBK-217F(25℃)		
Installation	Install on DIN rail TS35		
Protection class	IP20		
Weight	About 0.55kg		
Length*width*height	125.2*32*102mm		

Data	**Details**	**Model name**
	AMQR 75.6W 6.3A/12V	AMQR07512N
	AMQR 76.8W 3.2A/24V	AMQR07524N
	AMQR 76.8W 1.6A/48V	AMQR07548N

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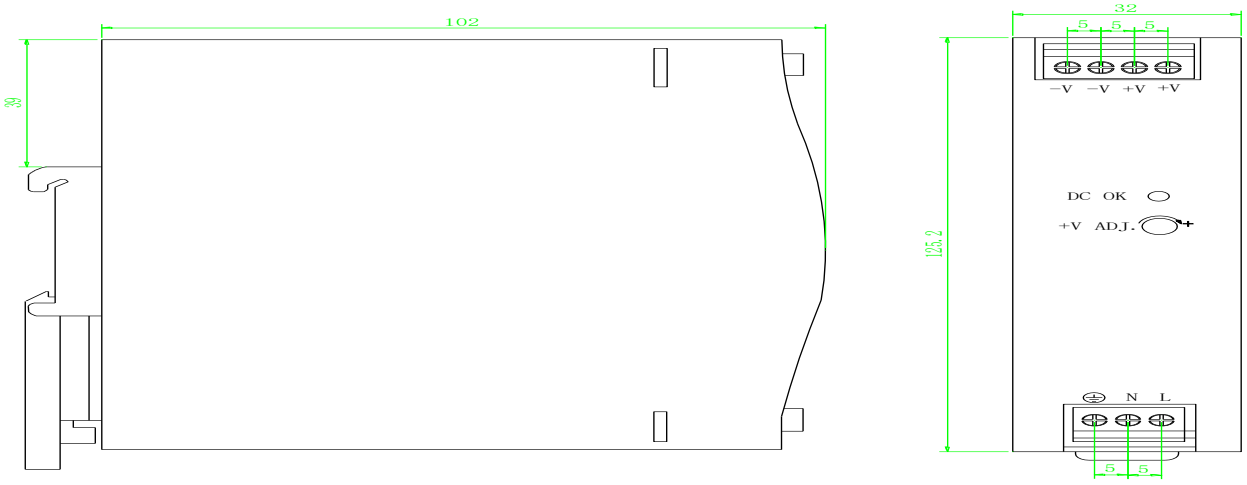
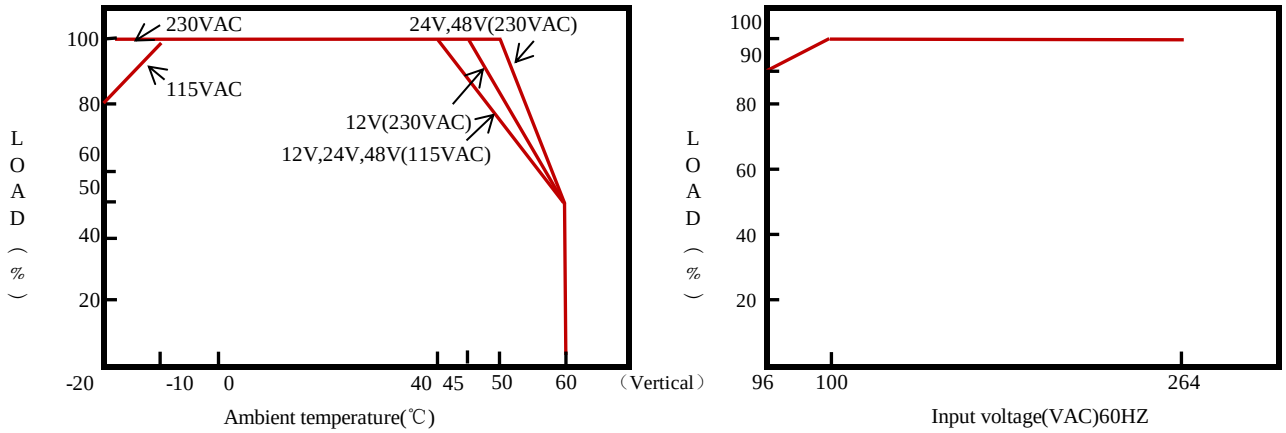
Installation Instruction



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℃ of ambient temperature.
4.Tolerance:includes set up tolerance,line regulation and load regulation.
5.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/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 is 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.