AMLPULS®

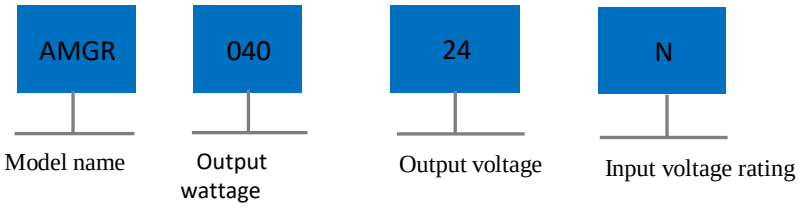
AMGR040□N Series



▲ Features

Universal AC input/full range
Protections:short circuit/overload/over voltage
Cooling by free air convection
Can be installed on DIN rail TS-35/7.5 or 15
Power On LED indicator
No load power consumption<0.75W
100% full load burn -in test
3 years warranty

▲ Model Encoding



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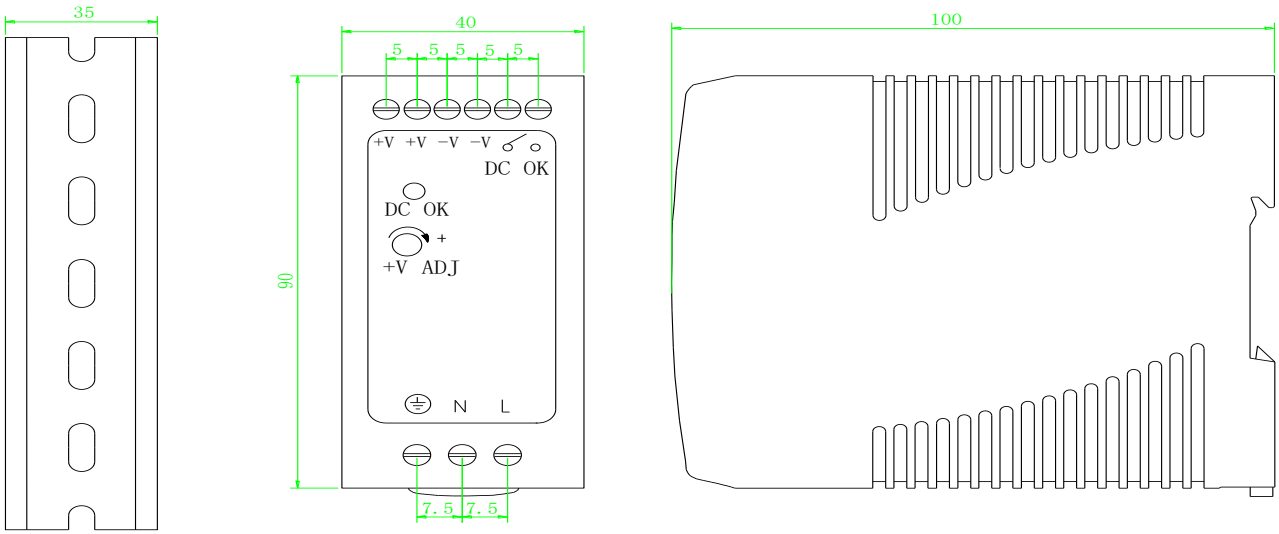
Specification

Input				
Voltage range	85-264VAC 120-370VDC			
AC current	1.1A/115VAC 0.7A/230VAC			
Frequency range	47-63Hz			
Inrush current (max)	Cold start：30A/115VAC 60A/230VAC			
Output				
DC voltage (V)	5V	12V	24V	48V
Efficiency	78%	86%	88%	88%
Rated Current (A)	6A	3.33A	1.7A	0.83A
Rated power(W)	30W	40W	40.8W	39.8W
Voltage ADJ.range	5-6V	12-15V	24-30V	48-56V
Ripple & noise(max) Note.2	80mVp-p	120mVp-p	150mVp-p	200mVp-p
Voltage tolerange Note.3	±2%	±1%	±1%	±1%
Line regulation	±1%	±1%	±1%	±1%
Load regulation	±1%	±1%	±1%	±1%
Setup，rise time Note.4	500ms 30ms/230VAC 500ms 30ms/115VAC(at full load)			
Hold up time	50ms/230VAC 20ms/115VAC(at full load)			
Status indicator	Green LED			
Protection				
Overload	105%-150% of rated output power			
	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
Over voltage(V)	6.25-7.25V	15.6-18V	31.2-36V	57.6-64.8V
	Protection type:Shut down O/P voltage ,re-power on to recover			
Safety and EMC				
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC 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 EN55011，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,EN61204-3.heavy industry level, criteria A			
Environmental				
Working temperature	- 20～+70 ℃ （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	301.7K hrs min MIL-HDBK-217F(25℃)			
Installation	Install on DIN rail TS35			
Protection class	IP20			
Weight	0.32kg			
Length*width*height	90*40*100mm			

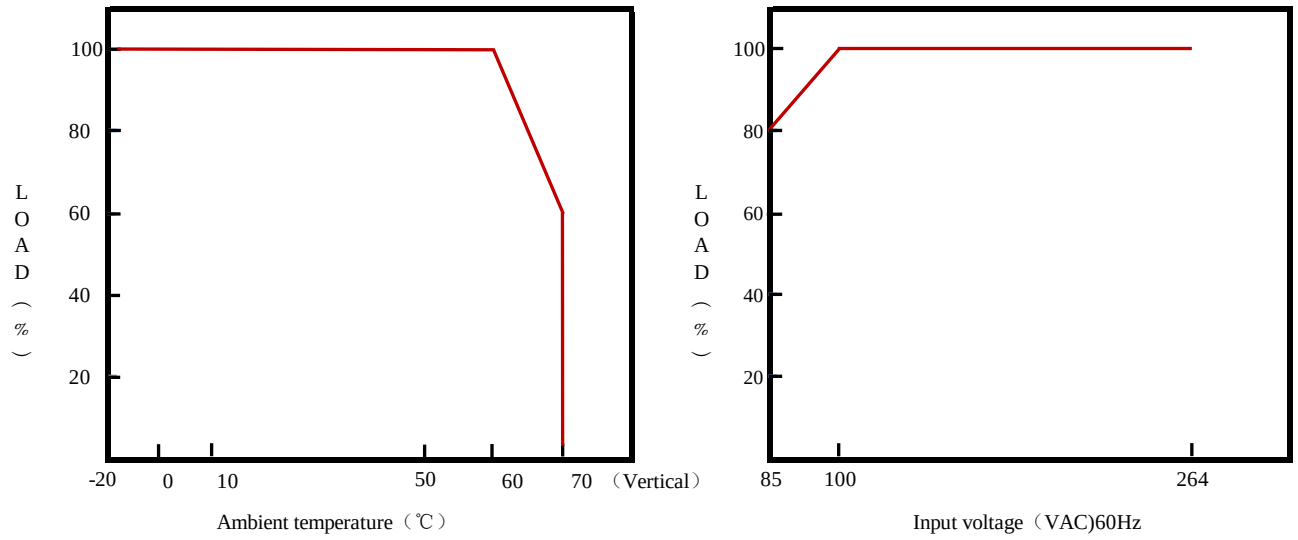
Data	**Details**	**Model name**
	AMGR 30W 6A/5V	AMGR04005N
	AMGR 40W 3.33A/12V	AMGR04012N
	AMGR 40.8W 1.7A/24V	AMGR04024N
	AMGR 39.8W 0.83A/48V	AMGR04048N

Installation Instruction



Install DIN rail TS35/7.5 or TS35/15
Tightening Torque Max. :5 kgf-cm (4.4 Lb-in)

Derating curve



Note:

1.All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.

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.Tolerance:includes set up tolerance,line regulation and load regulation.

4.Length of set up time is measured at cold first statr.Turning ON/OFF the power supply may lead to increase of the set up time.

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).