

AMPLPULS

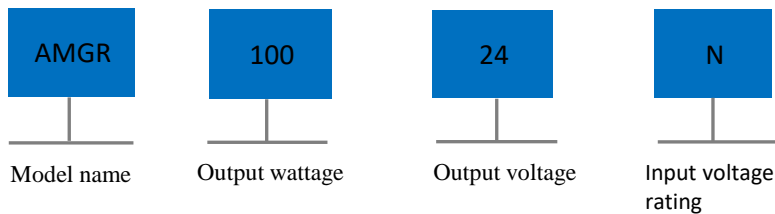
AMGR100□N Series



▲ Features

- Universal AC input/full range
- Protections: Short circuit/Overload/Over voltage/Over temperature
- ZCS/ZVS technology to reduce power dissipation
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption < 1W
- 100% full load burn -in test
- 3 years warranty

▲ Model Endoding



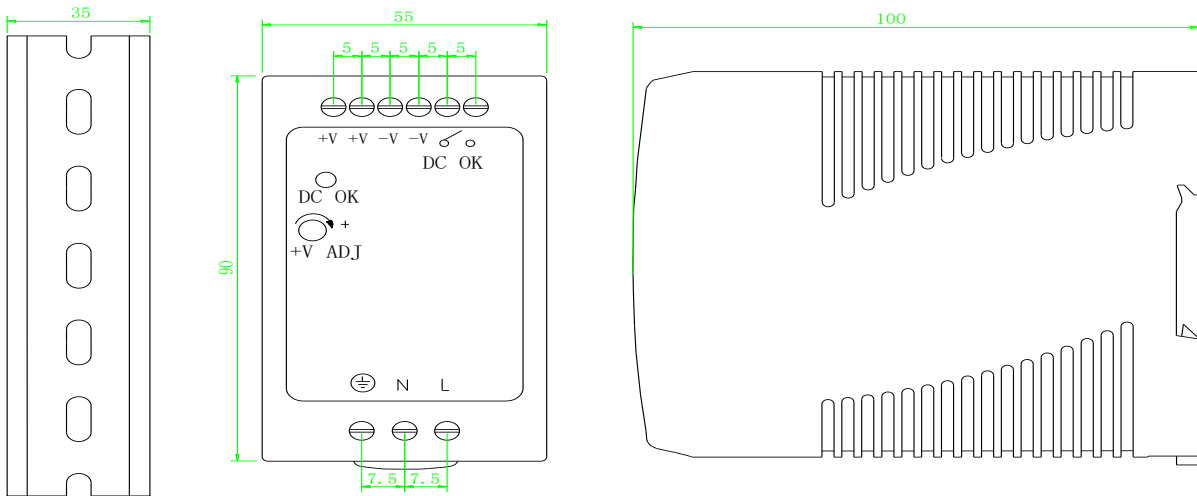
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Specifications

Input			
Voltage range <small>Note.1</small>	85-264VAC 120-370VDC		
AC current	1.3A/115VAC 0.8A/230VAC		
Frequency range	47-63Hz		
Inrush current (max)	Cold start: 30A/115VAC 60A/230VAC		
Output			
DC voltage (V)	12V	24V	48V
Efficiency	82%	85%	86%
Rated Current (A)	7.5A	4A	2A
Rated power(W)	90W	96W	96W
Voltage ADJ.range	12-15V	24-30V	48-56V
Ripple & noise(max) <small>Note.3</small>	120mVp-p	150mVp-p	200mVp-p
Voltage tolerance <small>Note.4</small>	±1%	±1%	±1%
Line regulation	±1%	±1%	±1%
Load regulation	±1%	±1%	±1%
Setup, rise time <small>Note.5</small>	3000ms 50ms/230VAC 3000ms 50ms/115VAC(at full load)		
Hold up time	50ms/230VAC 20ms/115VAC(at full load)		
Status indicator	Green LED		
Protection			
Overload	105%-150% rated output power		
	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
Over voltage(V)	15.6-18V	31.2-36V	57.6-64.8V
	Protection type:Shut down O/P voltage ,re-power on to recover		
Over temperature	Shut down O/P voltage,auto-recovery or re-power on to recover		
DC OK signal	Relay contact rating(max.):30V/1A resistive		
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	- 10~+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	346K hrs min MIL-HDBK-217F(25℃)		
Installation	Install on DIN rail TS35		
Protection class	IP20		
Weight	0.45kg		
Length*width*height	90*55*100mm		
Data	Details	Model name	
	AMGR 90W 7.5A/12V	AMGR10012N	
	AMGR 96W 4A/24V	AMGR10024N	
	AMGR 96W 2A/48V	AMGR10048N	

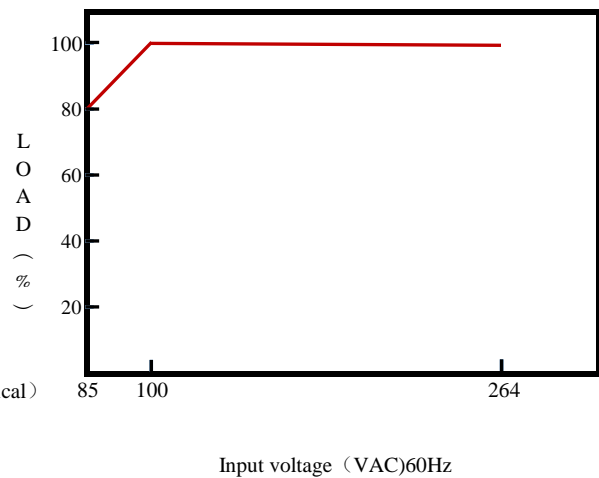
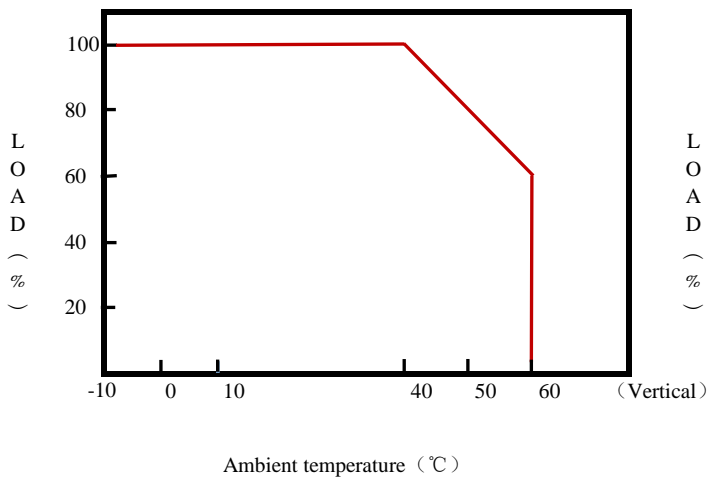
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Installation Instruction



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

Derating curve



- Note:**
1. Derating may be needed under low input voltages, please check the derating curve for more detail.
 2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 3. Ripple & noise are measured at 20MHZ of bandwidth by using a "12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 4. Tolerance: includes set up tolerance, line regulation and load regulation.
 5. 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
 6. 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)