

# Switching Power Supply

Reliable , Convenient , Powerful  
Superb Technology of Industrial Power Supply

## Product Selection Guide



CE RoHS

AMLPULS®

Manufacturing Products for QA Customers

## ■ Features

Universal AC input / Full range  
 Protections: Over voltage / overload / short circuit  
 LED indicator for power on  
 Installed on DIN rail TS-35  
 Built-in active PFC function  
 Natural heat dissipation  
 Small-volume, Exquisite and beautiful,  
 High-efficiency, High-reliability  
 3 years warranty



10/20W

40/60W

100W

| Model No                        | AMGR010   | AMGR020   | AMGR040    | AMGR060    | AMGR100   |
|---------------------------------|---|-----------|------------|------------|---|
| Input Voltage                   | 85 ~ 264VAC; 120 ~ 370VDC   |           |            |            |   |
| Output Voltage Adjustment Range | 5V: 4.5 ~ 5.5V, 12V: 10.8 ~ 13.8V, 15V: 13.5 ~ 18V, 24V: 21.6 ~ 29V, 48V: 43.2 ~ 55.2V                  |           |            |            |   |
| Overload Protection             | 105% ~ 150%   |           |            |            |   |
| Over Voltage Protection         | 5V: 5.75 ~ 6.75V, 12V: 13.8 ~ 16.2V, 15V: 17.25 ~ 20.25V, 24V: 27.6 ~ 32.4V, 48V: 43.2 ~ 55.2V          |           |            |            |   |
| Safety Standards                | GB4943.1  |           |            |            |   |
| EMC Standards                   | EN55022(CISPR22) Class B; EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-1, light industry level, criteria A |           |            |            |   |
| Withstand Voltage               | I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC  |           |            |            |   |
| Working Temperature             | -20 ~ +70°C (Pass off "technical specifications")   |           |            |            | -10 ~ +60°C (Pass off "technical specifications") |
| Storage Humidity                | -20 ~ +85°C   |           |            |            |   |
| Storage Humidity                | 10-95%RH  |           |            |            |   |
| Vibration                       | 10-500Hz, 2G 10min./1 cycle, period for 60 min. each along X, Y, Z axes                                 |           |            |            |   |
| (W*H*D)(mm)                     | 90*22.5*100   |           | 90*40*100  |            | 90*55*100   |
| Weight Kg                       | about 0.18  | about 0.2 | about 0.32 | about 0.35 | about 0.45  |

Remark: For more technical specifications, please ask the business department for "technical specifications"

### ■ 10W

| Model No.  | Output    | Tol. | R&N   | Effi. |
|------------|-----------|------|-------|-------|
| AMGR01005N | 2A 5V     | ±5%  | 80mV  | 76%   |
| AMGR01012N | 0.84A 12V | ±3%  | 120mV | 80%   |
| AMGR01015N | 0.67A 15V | ±3%  | 120mV | 80%   |
| AMGR01024N | 0.42A 24V | ±2%  | 150mV | 83%   |

### ■ 40W

| Model No.  | Output    | Tol. | R&N   | Effi. |
|------------|-----------|------|-------|-------|
| AMGR04005N | 6A 5V     | ±2%  | 80mV  | 78%   |
| AMGR04012N | 3.33A 12V | ±1%  | 120mV | 86%   |
| AMGR04024N | 1.7A 24V  | ±1%  | 150mV | 88%   |
| AMGR04048N | 0.83A 48V | ±1%  | 200mV | 88%   |

### ■ 100W

| Model No.  | Output   | Tol. | R&N   | Effi. |
|------------|----------|------|-------|-------|
| AMGR10012N | 7.5A 12V | ±1%  | 120mV | 83%   |
| AMGR10024N | 4A 24V   | ±1%  | 150mV | 86%   |
| AMGR10048N | 2A 48V   | ±1%  | 200mV | 87%   |

### ■ 20W

| Model No.  | Output    | Tol. | R&N   | Effi. |
|------------|-----------|------|-------|-------|
| AMGR02005N | 3A 5V     | ±2%  | 80mV  | 76%   |
| AMGR02012N | 1.67A 12V | ±1%  | 120mV | 80%   |
| AMGR02015N | 1.34A 15V | ±1%  | 120mV | 80%   |
| AMGR02024N | 1A 24V    | ±1%  | 150mV | 83%   |

### ■ 60W

| Model No.  | Output    | Tol. | R&N   | Effi. |
|------------|-----------|------|-------|-------|
| AMGR06005N | 10A 5V    | ±2%  | 80mV  | 78%   |
| AMGR06012N | 5A 12V    | ±1%  | 120mV | 86%   |
| AMGR06024N | 2.5A 24V  | ±1%  | 150mV | 88%   |
| AMGR06048N | 1.25A 48V | ±1%  | 200mV | 87%   |

# AMQR Series

## ■ Features

Universal AC input / Full range  
 Protections: Over voltage / overload / short circuit  
 LED indicator for power on  
 Installed on DIN rail TS-35  
 Built-in active PFC function  
 Natural heat dissipation  
 Small-volume, Exquisite and beautiful,  
 High-efficiency, High-reliability  
 3 years warranty



75W



120/150W



240W



480W

| Model No                        | AMQR075   | AMQR120  | AMQR150 | AMQR240  | AMQR480          |
|---------------------------------|---|--|---------|--|------------------|
| Input Voltage                   | 96 ~ 264VAC; 120 ~ 370VDC   |  |         |  |                  |
| Output Voltage Adjustment Range | 12V: 12 ~ 14V, 24V: 24 ~ 28V, 48V: 48 ~ 55V                             |  |         |  |                  |
| Overload Protection             | 105% ~ 150%   |  |         |  |                  |
| Over Voltage Protection         | 12V: 14 ~ 17V, 24V: 29 ~ 33V, 48V: 56 ~ 65V                             |  |         |  |                  |
| Safety Standards                | GB4943.1  |  |         |  |                  |
| EMC Standards                   | EN55022(CISPR22) Class B; EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-1   |  |         |  |                  |
| Withstand Voltage               | I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC                          |  |         |  |                  |
| Working Temperature             | - 20 ~ +70°C ( Pass off "technical specifications" )                    | - 20 ~ +60°C ( Pass off "technical specifications" ) |         | - 20 ~ +70°C ( Pass off "technical specifications" ) |                  |
| Storage Humidity                | - 20 ~ +85°C  |  |         |  |                  |
| Storage Humidity                | 10-95%RH  |  |         |  |                  |
| Vibration                       | 10-500Hz, 2G 10min./1 cycle, period for 60 min. each along X, Y, Z axes |  |         |  |                  |
| (W*H*D)(mm)                     | 125.2*32*102  | 125.2*40*113.5                                       |         | 125.2*63*113.5                                       | 125.2*85.5*128.5 |
| Weight Kg                       | about 0.55  | about 0.65   |         | about 1.08   | about 1.9        |

Remark: For more technical specifications, please ask the business department for "technical specifications"

### ■ 75W

| Model No.  | Output   | Tol. | R&N   | Effi. |
|------------|----------|------|-------|-------|
| AMQR07512N | 6.3A 12V | ±2%  | 80mV  | 84%   |
| AMQR07524N | 3.2A 24V | ±1%  | 150mV | 87%   |
| AMQR07548N | 1.6A 48V | ±1%  | 240mV | 88%   |

### ■ 150W

| Model No.  | Output   | Tol. | R&N   | Effi. |
|------------|----------|------|-------|-------|
| AMQR15024N | 6.5A 24V | ±1%  | 150mV | 87%   |

### ■ 480W

| Model No.  | Output  | Tol. | R&N   | Effi. |
|------------|---------|------|-------|-------|
| AMQR48024N | 20A 24V | ±1%  | 150mV | 90%   |
| AMQR48048N | 10A 48V | ±1%  | 150mV | 90%   |

### ■ 120W

| Model No.  | Output   | Tol. | R&N   | Effi. |
|------------|----------|------|-------|-------|
| AMQR12012N | 10A 12V  | ±2%  | 100mV | 84%   |
| AMQR12024N | 5A 24V   | ±1%  | 120mV | 87%   |
| AMQR12048N | 2.5A 48V | ±1%  | 150mV | 88%   |

### ■ 240W

| Model No.  | Output  | Tol. | R&N   | Effi. |
|------------|---------|------|-------|-------|
| AMQR24024N | 10A 24V | ±1%  | 150mV | 87%   |
| AMQR24048N | 5A 48V  | ±1%  | 150mV | 89%   |

# Safety Precautions

## Caution

Minor electric shock, fire, or Product failure may occasionally occur. Do not disassemble, modify, or repair the Product to touch the interior of the Product.



Minor burns may occasionally occur. Do not touch the Product while power is being supplied or immediately after power is turned OFF.



Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied. Always close the terminal cover after wiring.



Minor electric shock, fire, or Product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the Product.



## Precautions for Safe Use

- **Ambient Operating and Storage Environments**
- Use each Product within the rated range for ambient operating temperature, ambient operating humidity.
- And storage temperature specified for that Product.
- Do not use the Power Supply in locations subject to direct sunlight.
- Do not use locations where liquids, foreign matter, or corrosive gases may enter the interior of the Product.

## • Wiring

- Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if the ground is not connected completely.
- Minor fire may possibly occur. Ensure that input and output terminals are wired correctly.
- Do not apply more than 75 N force to the terminal block when tightening it.

## • In Case There Is No Output Voltage

- The possible cause for no output voltage may be that the overcurrent or overvoltage protection has operated. The internal protection may operate if a large amount of surge voltage such as a lightning surge occurs while turning ON the Power Supply.
- In case there is no output voltage, please check the following points before contacting us:
  1. Checking overcurrent protected status: Check whether the load is in overcurrent status or is shortcircuited. Remove wires to load when checking.
  2. Checking overvoltage or internal protection: Turn the power supply OFF once, and leave it OFF for at least 5 minutes. Then turn it ON again to see if this clears the condition.

## • Warranty

- Free warranty scope:  
The average temperature is below 50 °C (Ambient temperature around the body) : At rated load range, At standard configuration, Non-human damaged, Non-force majeure damage.

## • Remarks

The information provided in this product description contains only general performance data. It may change depending on the usage and the environment or with further development of the product. Only under the terms of the contract we are obliged to provide the required performance data. The content is subject to change without prior notice.