

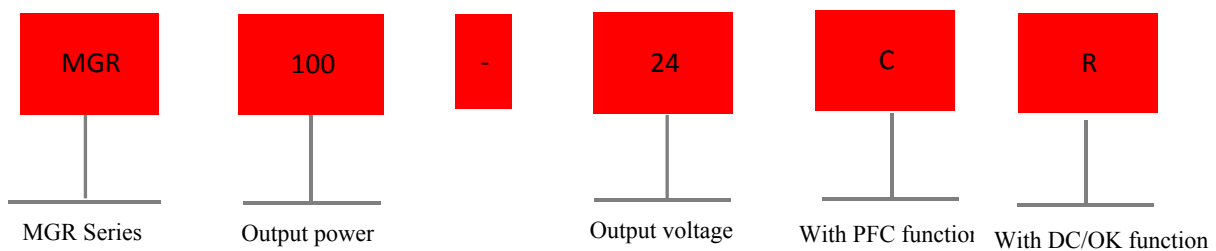
MGR100-□CR Series



▲ 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
- 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 code

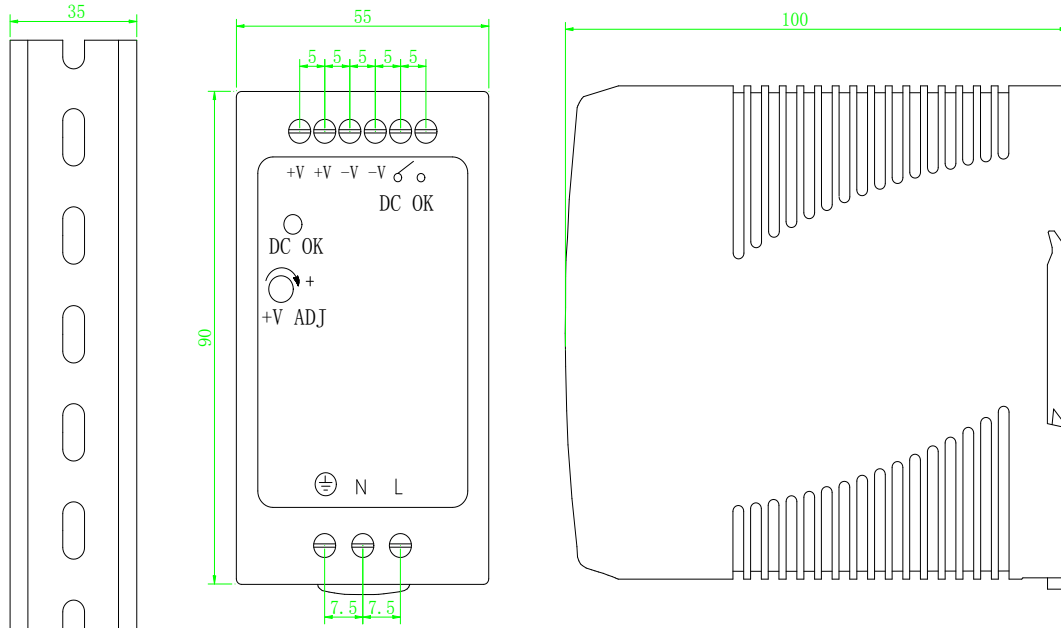




Electrical specifications

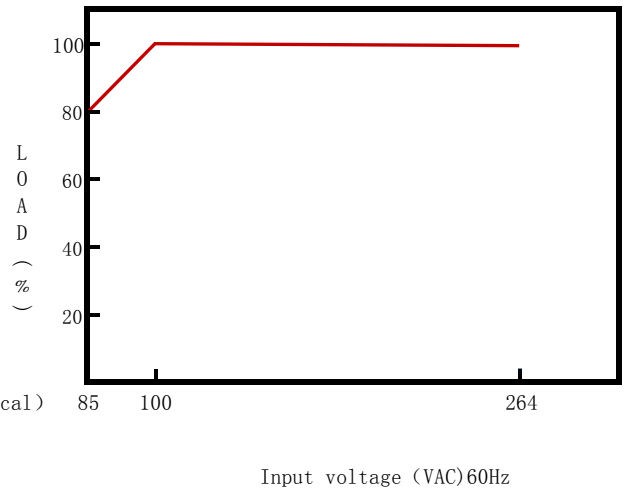
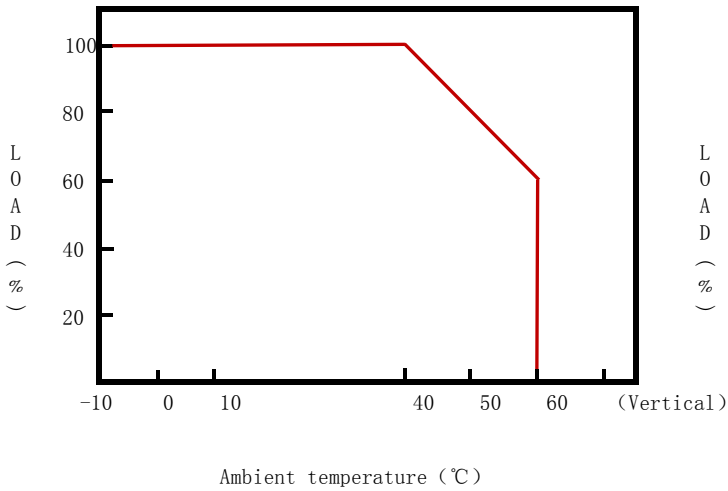
Input parameter			
Voltage range Note.1	85-264VAC 120-370VDC		
AC current	1.3A/115VAC 0.8A/230VAC		
Frequency range	47-63Hz		
Inrush current (max)	Cold start: 30A/115VAC 60A/230VAC		
Output parameter			
DC voltage (V)	12V	24V	48V
Efficiency	83%	86%	87%
Rated Current (A)	0-7.5A	0-4A	0-2A
Rated power(W)	90W	96W	96W
Voltage adj.range	±10%		
Ripple & noise(max)Note.2	100mVp-p	120mVp-p	150mVp-p
Voltage tolerange Note.4	±1%	±1%	±1%
Line regulation	±1%	±1%	±1%
Load regulation	±1%	±1%	±1%
Setup, rise time Note.5	3000ms 50ms/230VAC 3000ms 50ms/115VAC(at full load)		
Hold up time	50ms/230VAC 20ms/115VAC(at full load)		
Status indicator	Green LED		
Protect function			
Overload	The rated output power is 105%-150%		
	Protection mode: Constant current limiting, recovers automatically after fault condition is removed		
Over voltage(V)	15.6-18V	31.2-36V	57.6-64.8V
	Protection mode:Shut down O/P voltage ,re-power on to recover		
DC OK signal	Relay contact rating(max.):30V/1A resistive		
Safety and electromagnetic compatibility			
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°C/70% RH		
Safety specification	60950-1、GB4943.1		
EMC emission	Design reference EN55022(CISPR22)Class B,EN61000-3-2,-3		
EMC immunity	Design reference EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-1, light industry level, criteria A		
Environmental parameters			
Working temperature	- 10~+60 °C (Refer to "Derating curve ")		
Storage temperature	- 40~+85°C		
Storage humidity	10-95% RH		
Vibration	10-500Hz,2G 10 min/cycle X,Y,Z axis 60 minutes.		
The other parameters			
Mean time between failure	346K hrs min MIL-HDBK-217F(25°C)		
Installation	Ts35 installation		
Protection class	IP20		
Weight	0.45kg		
Length*width*height	90*55*100		
Order data	Parameters to describes	Order type	
	MGR 90W 7.5A/12V	MGR100-12CR	
	MGR 96W 4A/24V	MGR100-24CR	
	MGR 96W 2A/48V	MGR100-48CR	

Installation diagram



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

Derating curve



Note:

1. Derating maybe needed under low input voltages, please check the derating curve for more detail.
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. 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)
7. 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, For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies