

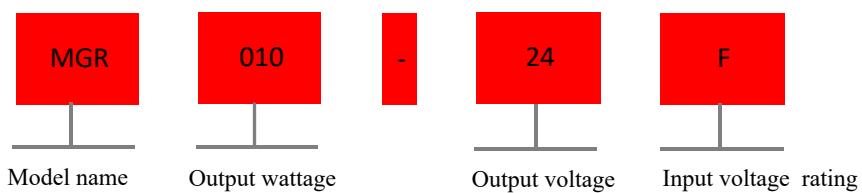
MGR010-□F Series



▲ 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
- LED indicator for power on
- No load power consumption <0.75W
- 100% full load burn -in test
- 3 years warranty

▲ Model Encoding

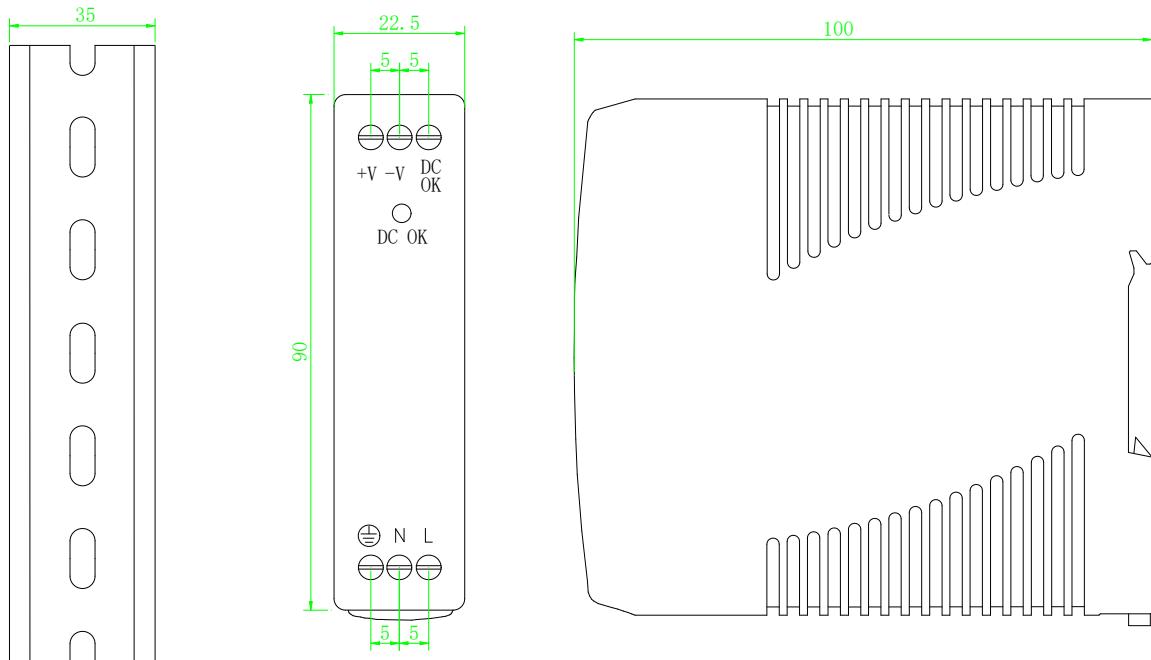


Specification

Input						
Voltage range	85-264VAC 120-370VDC					
AC current	0.33A/115VAC 0.21A/230VAC					
Frequency range	47-63Hz					
Inrush current (max)	Cold start: 35A/115VAC 70A/230VAC					
Output						
DC voltage (V)	5V	12V	15V	24V		
Efficiency	76%	80%	80%	83%		
Rated Current (A)	2A	0.84A	0.67A	0.42A		
Rated power(W)	10W	10W	10W	10W		
Ripple & noise(max) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p		
Voltage tolerange Note.3	±5%	±3%	±3%	±2%		
Line regulation	±1%	±1%	±1%	±1%		
Load regulation	±5%	±3%	±3%	±2%		
Setup, rise time Note.4	500ms 30ms/230VAC 1000ms 30ms/115VAC(at full load)					
Hold up time	120ms/230VAC 25ms/115VAC(at full load)					
Status indicator	Green LED					
Protection						
Overload	105%-150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Over voltage(V)	5.75-6.75V	13.8-16.2V	17.25-20.25V	27.6-32.4V		
	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°C/70 % RH					
Safety standards	Design reference EN IEC 62368-1、GB 4943.1					
EMC emission	Parameter	Standard	Test Level/Note			
	Conducted	EN 55032	Class B			
	Radiated	EN 55032	Class B			
	Voltage Flicker	EN 61000-3-3	Design reference Class A			
	Harmonic Current	EN IEC 61000-3-2	Design reference Class A			
EMC immunity	Parameter	Standard	Test Level/Note			
	ESD	EN 61000-4-2	Level 3 8KV air			
	Radiated Susceptibility	EN 61000-4-3	Level 2 3V/m			
	EFT/Burst	EN 61000-4-4	Level 2 1KV/5KHZ			
	Surge	EN 61000-4-5	Level 2 1KV/L-N;Level2 2KV/L-N-FG			
	Conducted	EN 61000-4-6	Level 2 3V			
	Magnetic Field	EN 61000-4-8	Level 2 3A/m			
	Voltage Dips and interruptions	EN 61000-4-11	< 5% residual voltage for 0.5 cycles ,70% residual voltage for 25 cycles ,< 5% residual voltage for 250 cycles			
Environmental						
Working temperature	- 20～+70 °C (Refer to "Derating curve ")					
Storage temperature	-40～+85 °C					
Storage humidity	10-95 % RH					
Vibration	Component:10-500Hz,2G 10 min/1cycle ,60 min.each along X,Y,Z axes					

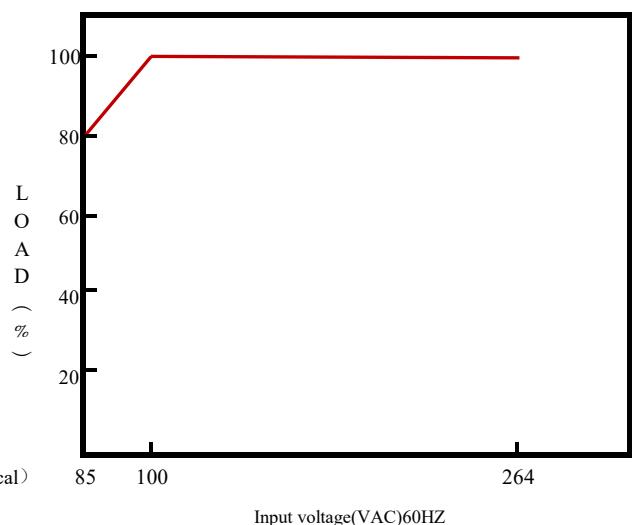
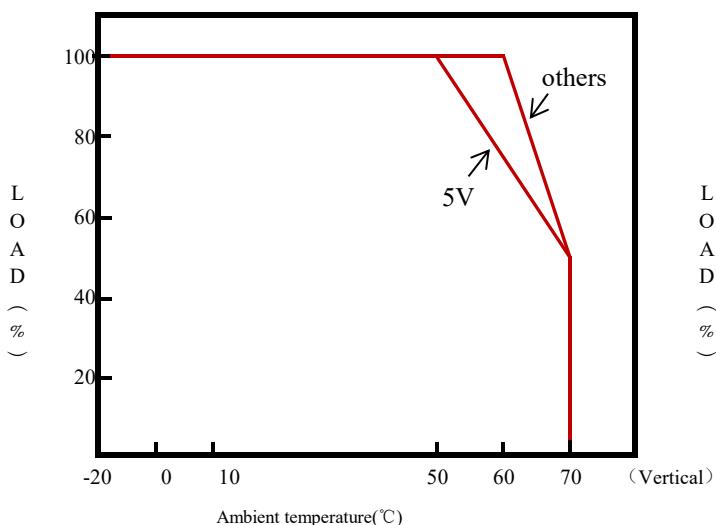
Others		
Mean time between failure	584K hrs min MIL-HDBK-217F(25°C)	
Installation	Install on DIN rail TS35	
Protection class	IP20	
Weight	About 0.18kg	
Length*width*height	90*22.5*100mm	
Data	Details	Model name
	MGR 10W 2A/5V	MGR010-05F
	MGR 10W 0.84A/12V	MGR010-12F
	MGR 10W 0.67A/15V	MGR010-15F
	MGR 10W 0.42A/24V	MGR010-24F

Installation Instruction



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

Derating curve



- Note:**
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 - Ripple & noise are measured at 20MHZ of bandwidth by using a "12"twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 - Tolerance: includes set up tolerance, line regulation and load regulation.
 - Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
 - 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).