

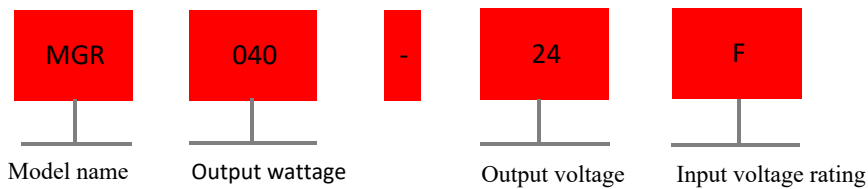
MGR040-□F Series



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

▲ Model Encoding



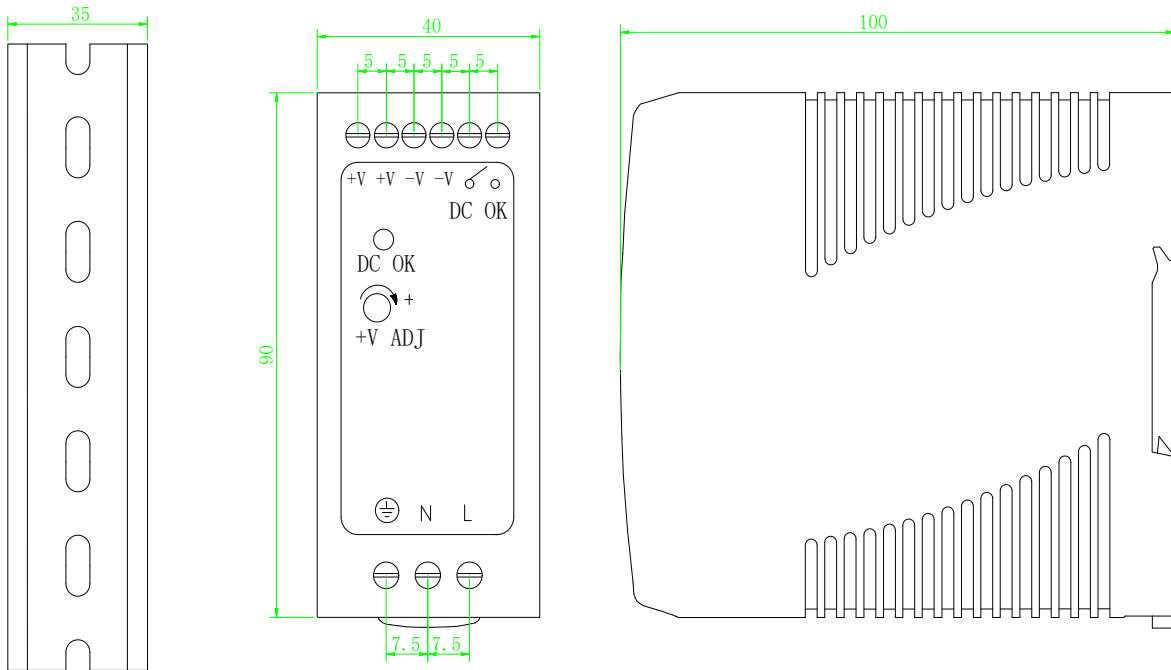


Specification

Input				
Voltage range	85-264VAC 120-370VDC			
AC current	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 °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
EMC immunity	Harmonic Current	EN IEC 61000-3-2		Design reference Class A
	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/Burest	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			

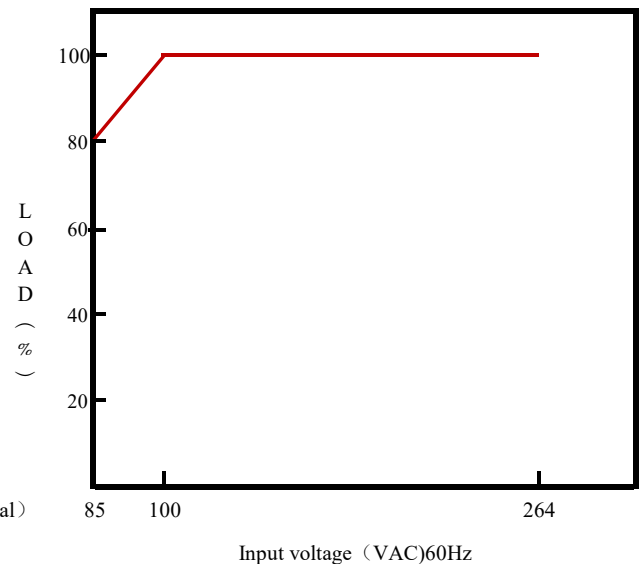
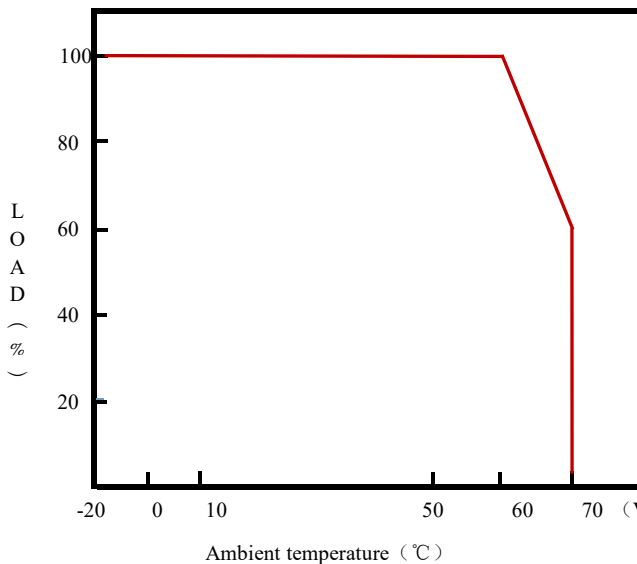
Others		
Mean time between failure	301.7K hrs min MIL-HDBK-217F(25°C)	
Installation	Install on DIN rail TS35	
Protection class	IP20	
Weight	0.32kg	
Length*width*height	90*40*100mm	
Data	Details	Model name
	MGR 30W 6A/5V	MGR040-05F
	MGR 40W 3.33A/12V	MGR040-12F
	MGR 40.8W 1.7A/24V	MGR040-24F
	MGR 39.8W 0.83A/48V	MGR040-48F

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°C 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°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).