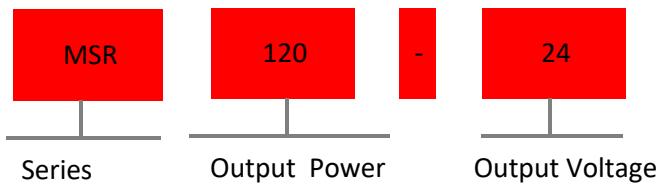




▲ Features

- Peak load capability up to 150%
- Built-in active PFC function, PF>0.93
- Efficiency >91%, Low power dissipation
- Protections: short circuit/overload/over voltage/over temperature
- Cooling by free air convection
- Mounting: DIN rail TS-35/7.5 or 15
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

▲ Model Encoding

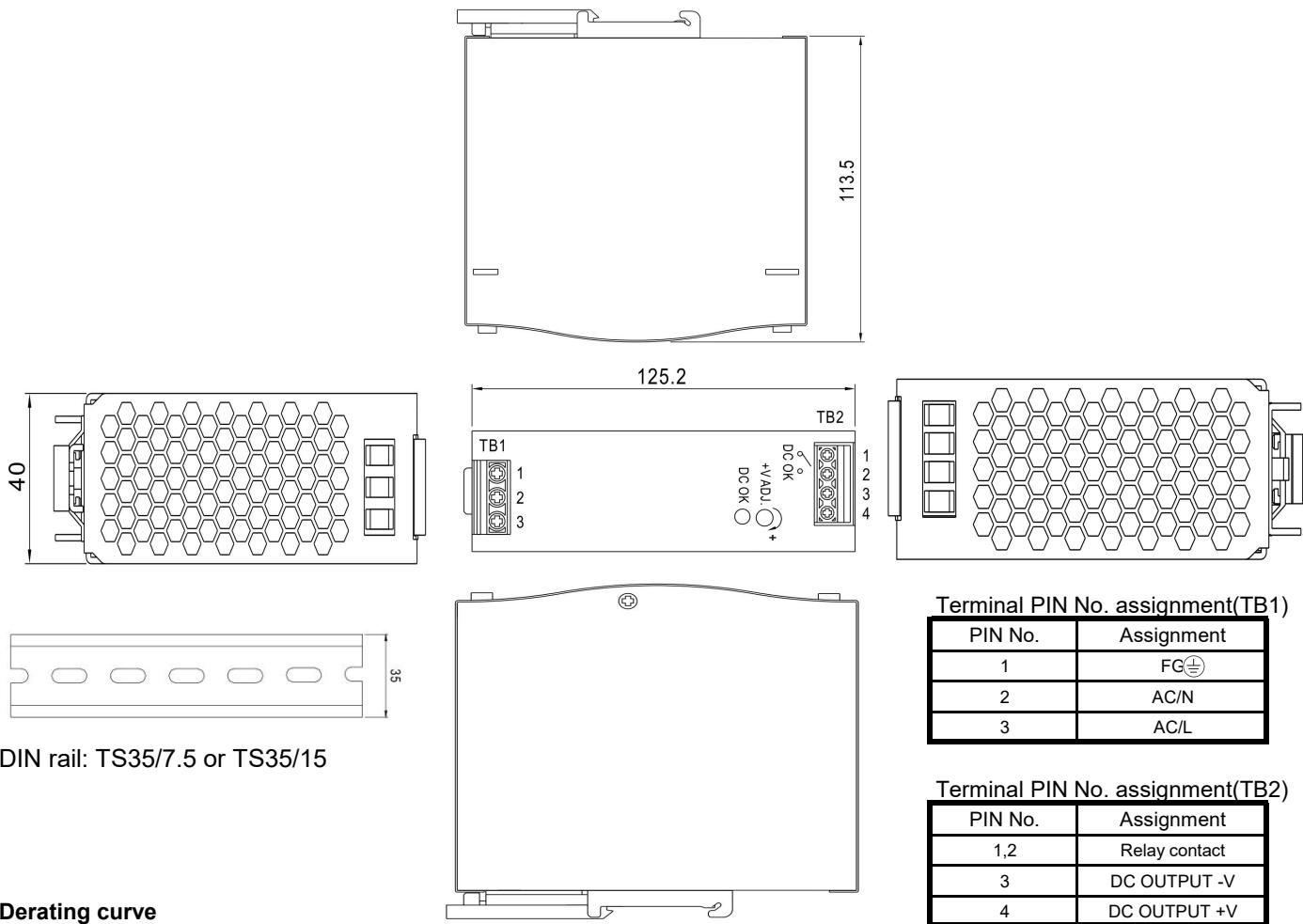


Specification

Input			
Input voltage *1	88-264VAC 124-370VDC		
AC current	1.4A/115VAC 0.7A/230VAC		
Frequency range	47-63Hz		
Inrush current(max.)	35A/115VAC 70A/230VAC		
Output			
DC voltage	12V	24V	48V
Rated current	10A	5A	2.5A
Current range	0-10A	0-5A	0-2.5A
Rated power	120W	120W	120W
Peak current	15A	7.5A	3.75A
Peak power *2	180W(3s)		
Ripple & noise(max.) *4	100mVp-p	100mVp-p	120mVp-p
Voltage ADJ. range	12-14V	24-28V	48-55V
Voltage tolerance	±1%	±1%	±1%
Line regulation	±0.5%	±0.5%	±0.5%
Load regulation	±1%	±1%	±1%
Efficiency *5	89%	91%	90.5%
Start up, rise time	1500ms 60ms 20ms/230VAC ; 3000ms 60ms 20ms/115VAC(@Full load)		
Hold up time	20ms/230VAC 20ms/115VAC(@Full load)		
Status indicator	Green LED		
Protection			
Over load	Normally works within 110 ~ 150% rated output power for 3 seconds and then shut down o/p voltage >150% of rated power, constant current limiting within 3s and recover automatically. Shut down O/P in 3s		
Over voltage	14-17V	29-33V	56-65V
	Protection type: Shut down O/P voltage. Repower On to recover.		
Over temperature	95°C±5°C(TSW) (Detect on the heat sink of power supply) Protection type: Shut down O/P voltage, automatically recover after the temperature goes down		
DC OK relay contact capacity	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load		
Safety & EMC			
Withstand voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
Isolation resistance	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC		
Safety standards	Design refer to EN IEC 62368-1、GB4943.1		
EMC emission	Parameter	Standard	Test level
	Conducted	EN 55032	Class B
	Radiated	EN 55032	Class B
	Voltage Flicker	EN 61000-3-3	Design refer to Class A
	Harmonic Current	EN IEC 61000-3-2	Class A
EMC immunity	Parameter	Standard	Test level
	ESD	EN 61000-4-2	Level 3 8KV air;Level 2 4KV contact
	Radiated Susceptibility	EN 61000-4-3	Level 3 10V/m
	EFT/Burst	EN 61000-4-4	Level 3 2KV/5KHZ
	Surge	EN 61000-4-5	Level 3 2KV/L-N;Level3 4kV/L-N-FG
	Conducted	EN 61000-4-6	Level 3 10V
	Magnetic Field	EN 61000-4-8	Level 4 30A/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;
Environment			
Operating temperature	-25~+70 °C (Refer to "Derating curve")		
Storage temp & humidity	-40~+85°C, 10~95%RH		
Operating humidity	20~95%RH,Non-condensing		
Vibration	10-500Hz,2G 10min/1 cycle, 60 min along with each X,Y,Z axes		

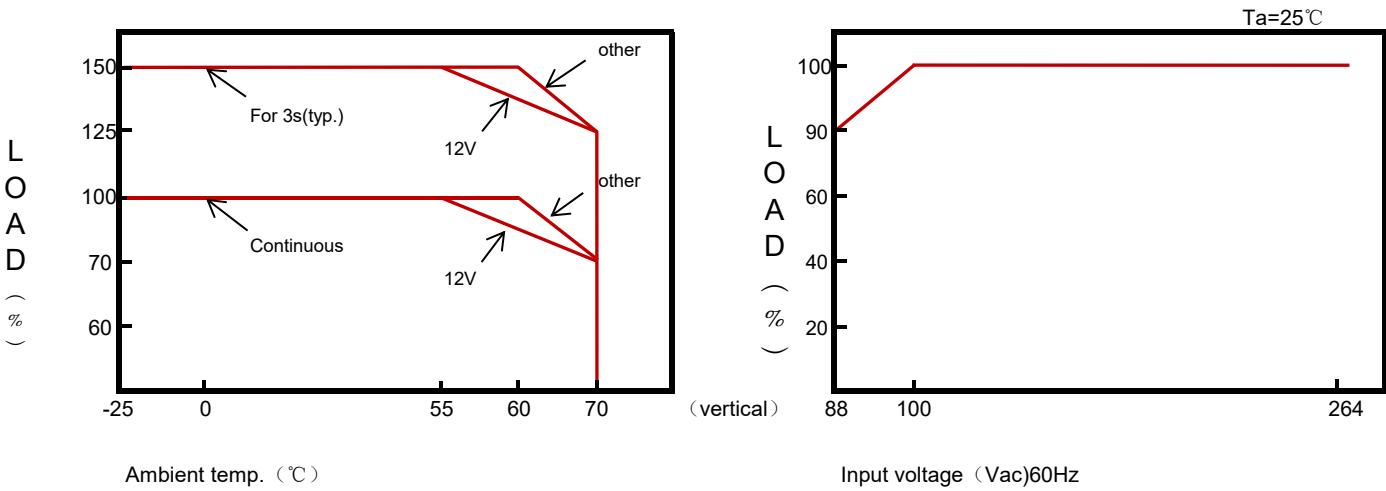
Others			
MTBF			
Installation			
Protection class			
Weight			
Dimension			
Data		Description	Model
MTBF		≥289.9Khrs MIL-HDBK-217F(25°C)	
Installation		TS35 DIN rail	
Protection class		IP20	
Weight		About 0.67kg	
Dimension		125.2*40*113.5mm	
		MSR 120W 10A/12V	MSR120-12
		MSR 120W 5A/24V	MSR120-24
		MSR 120W 2.5/48V	MSR120-48

Installation instruction



DIN rail: TS35/7.5 or TS35/15

Derating curve



- Note:**
- Derating may be needed under low input voltage. Please refer to derating curve for more details.
 - 3s max. please refer to the peak load curve
 - All parameters are measured at 230VAC input, rated load and 25°C of ambient temperature unless otherwise specified.
 - 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.
 - Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power, In case the adjacent device is a heat source, 15mm clearance is recommended.
 - 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).