



▲ Features

Ultra slim design with 70mm(4SU) width

No load power consumption < 0.3W

DIN rail TS-35/7.5 or15 mountable

Full range AC input 85~264VAC(277VAC operational)

DC output voltage adjustable

Isolation Class II

Cooling by free air convection(Operation Temp. : -30~+70°C)

LED indicator for power ON

Protections : Short circuit/Over load/Over voltage

3 years warranty

▲ Applications

Building automation

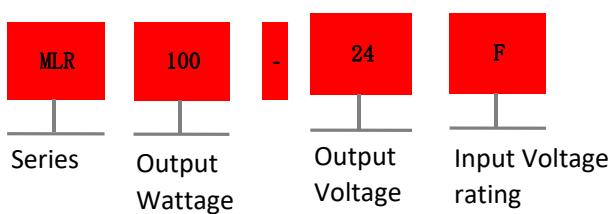
Household control system

Industrial control system

Factory automation

Electro-mechanical equipment

▲ Model encoding

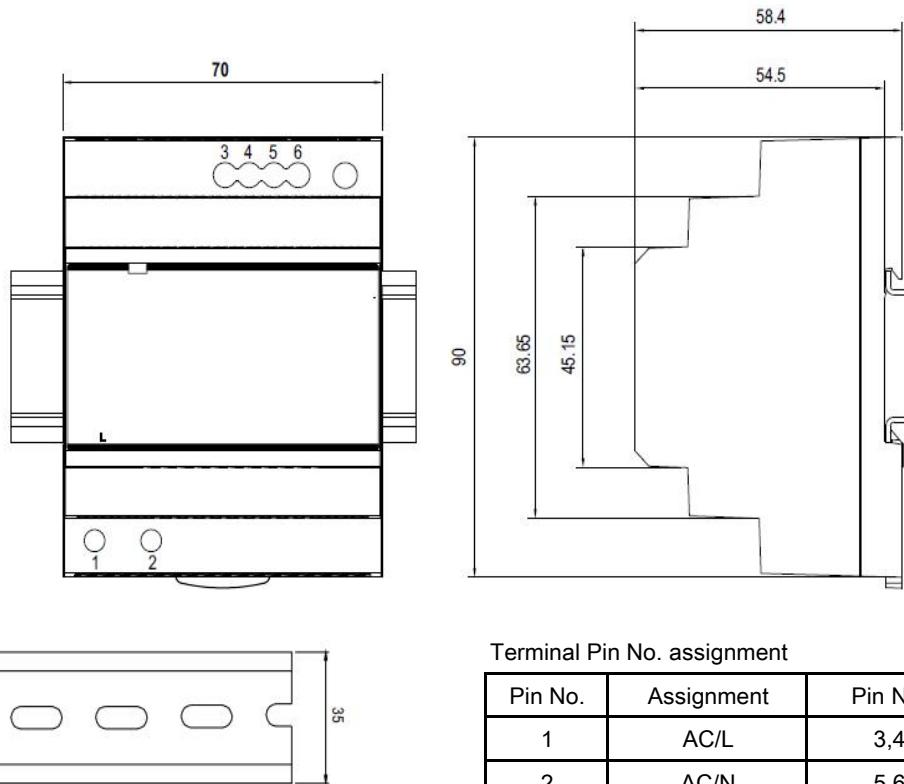


Specification

Input						
Input voltage range	85 ~ 264VAC(277VAC operational) 120 ~ 370VDC(390VDC Operational)					
Frequency range	47 ~ 63Hz					
AC current(Typ.)	3A/115VAC 1.6A/230VAC					
Inrush current (Typ.)	Cold start 35A/115VAC 70A/230VAC					
Output						
Model	MLR100-12F	MLR100-15F	MLR100-24F	MLR100-48F		
Output Voltage	12V	15V	24V	48V		
Efficiency(Typ.)	88%	89%	90%	90%		
Voltage ADJ range	12 ~ 13V	15 ~ 17V	24 ~ 25.5V	48 ~ 48.7V		
Rated current	7.1A	6.13A	3.83A	1.92A		
Current range	0-7.1A	0-6.13A	0-3.83A	0-1.92A		
Rated power	85.2W	92W	92W	92.2W		
Ripple & Noise(Max)*2	120mVp-p	120mVp-p	150mVp-p	240mVp-p		
Voltage tolerance *3	±2.0%	±1.0%	±1.0%	±1.0%		
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%		
Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%		
Setup, Rise time	500ms,60ms/230VAC 500ms,60ms/115VAC (@Full load)					
Holdup time (Typ.)	30ms/230VAC 12ms/115VAC (@Full load)					
Indicator	Green LED					
Protection						
Overload	105% ~ 160% of rated output power					
	Hiccup mode when output voltage < 50%, recovers automatically after fault condition is removed					
	Constant current limiting when output voltage between 50% ~ 100%, recovers automatically after fault condition is removed					
Over Voltage	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V		
	Shut down output voltage, re-power on to recover					
Safety & EMC						
Withstand Voltage	I/P-O/P:4KVAC					
Isolation resistance	I/P-O/P:100M Ohms/500VDC/25°C/70% RH					
Safety standards	设计参考EN IEC 62368-1、GB4943.1					
EMC Emission	Parameter	Standard	Test Level/Note			
	Conducted	EN 55032	Class B			
	Radiated	EN 55032	Class B			
	Voltage Flicker	EN 61000-3-3	Design refer to Class A			
	Harmonic Current		Design refer to Class A			
EMC Immunity	Parameter	Standard	Test Level/Note			
	ESD	EN61000-4-2	Level 3 8KV air;criteria A			
	Radiated Susceptibility	EN61000-4-3	Level 2 3V/m;criteria A			
	EFT/Burst	EN61000-4-4	Level 3 2KV;criteria A			
	Surge	EN61000-4-5	Level 3 2KV/L-N;criteria A			
	Conducted	EN61000-4-6	Level 2 3V/m;criteria A			
	Magnetic Field	EN61000-4-8	Level 2 3A/m;criteria A			
Voltage Dips and interruptions		EN 61000-4-11	> 95% dip 0.5 periods, 30% dip 25 periods, > 95% interruptions 250 periods			
Environment						
Operating Temp.	-30 ~ +70°C(Refer to "Derating Curve")					
Operating Humidity	20 ~ 90% RH,non-condensing					
Storage Temp. & Humidity	-40 ~ +85°C, 10 ~ 95% RH,non-condensing					
Temp. coefficient	±0.03%/°C (0 ~ 50°C)					
Vibration	10 ~ 500Hz, 2G 10 min/1 cycle, period for 60 min. each along X, Y, Z axes;Mounting: Compliance to IEC60068-2-6					
Operating Altitude	2000m					
Over Voltage Category	III;According to EN62368,EN61558,EN50178,EN60664-1,EN62477-1;Altitude up to 2000m					

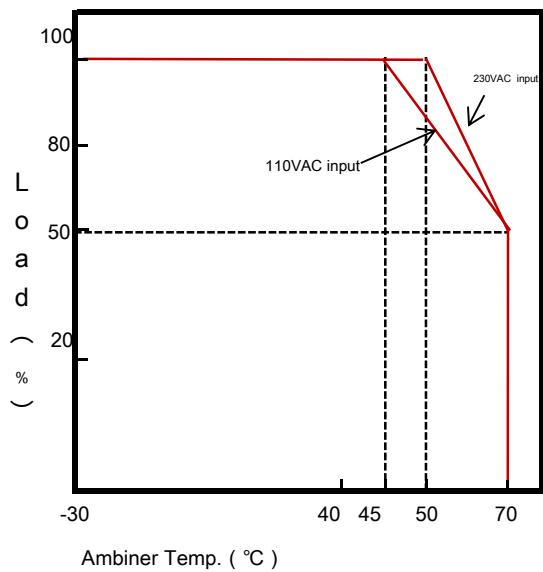
Others					
MTBF	≥856.5K hrs,MIL-HDBK-217F(25°C)				
Weight	0.31Kg				
Dimension	105*90*54.5mm(W*H*D)				
Ordering	Model	Output power	Output Voltage/current	Efficiency	Max. Capacitive Load
	MLR100-12F	85.2W	12V/7.1A	88%	5000uF
	MLR100-15F	92W	15V/6.13A	89%	4000uF
	MLR100-24F	92W	24V/3.83A	90%	3300uF
	MLR100-48F	92.2W	48V/1.92A	90%	1800uF
Accessory	Parameter	Model			

Installation instruction

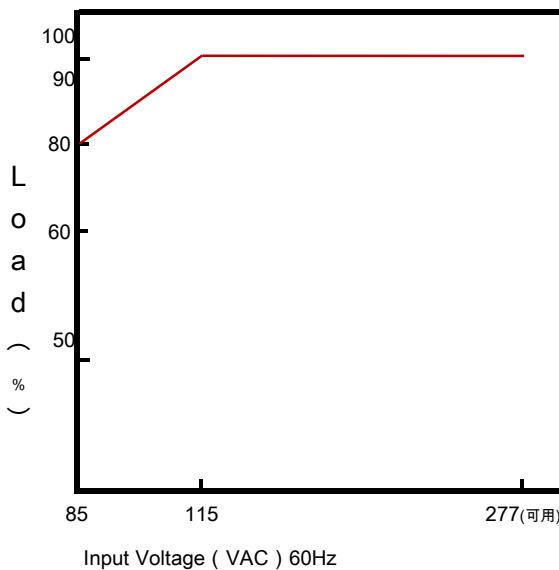


ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Derating Curve



Output Derating VS Input Voltage



- Note:**
- All paramets are measured at 230VAC input, rated load at 25°C of ambient temp. if not special mentioned
 - Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor
 - Tolerance:includes set up tolerance,line regulation and load regulation
 - 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)