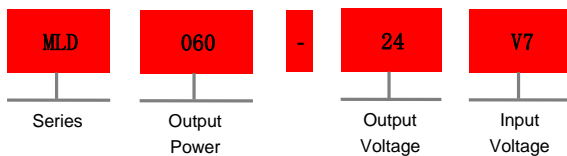




▲ Specification

- rail installation: TS-35/7.5 or 15
- 4.7KVdc I/O high high isolation (reinforced isolation)
- 30~+85°C wide range working temperature (>+60° C derating)
- ultra-thin width 32mm
- Output voltage (DC) adjustable
- DC OK relay contacts
- Protection: Over Voltage/Over load/Short circuit/Over temperature
- natural air cooling
- 3 years warranty

▲ Model encoding



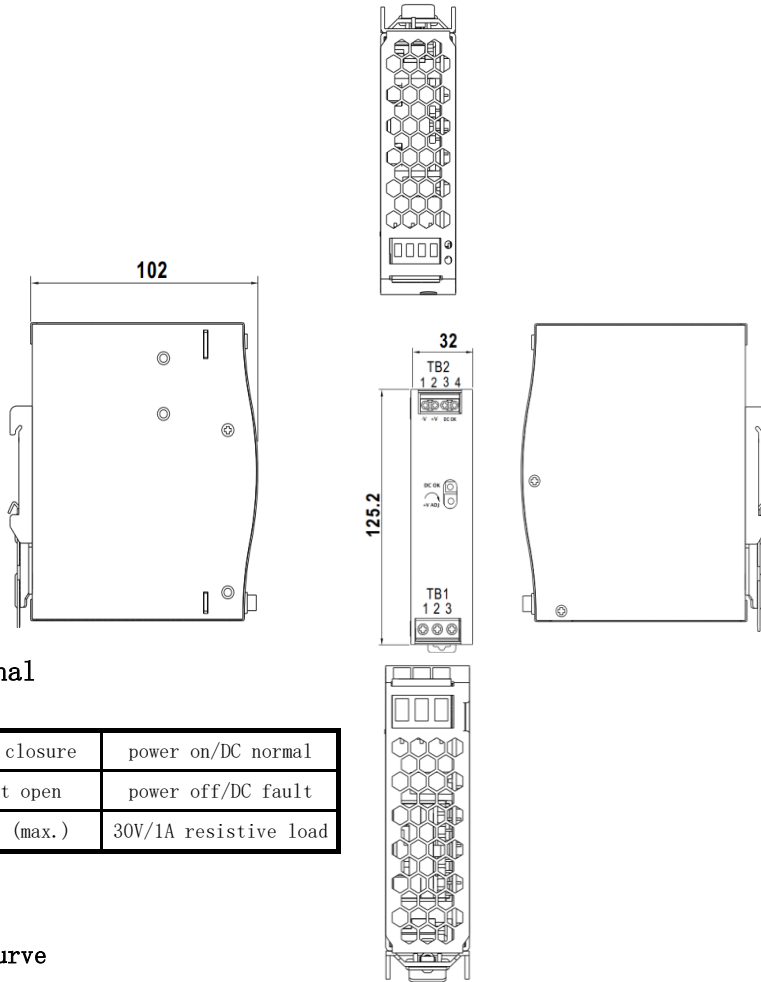


Specification

Input					
Input voltage note1	254-850Vdc				
Input Current (Typ.)	0.4A/565Vdc 0.7A/325VDC				
Surge current (Typ.)	cold start:50A/565Vdc				
Leakage current	<2mA / 749Vdc				
Output					
Model	MLD060-05V7	MLD060-12V7	MLD060-15V7	MLD060-24V7	MLD060-48V7
DC voltage (V)	5V	12V	15V	24V	48V
Efficiency (Typ.)	83.5%/565Vdc	86.5%/565Vdc	87%/565Vdc	89%/565Vdc	90.5%/565Vdc
Voltage adjustment range	5-6V	12-15V	15-18V	24-29V	48-57V
Rated current	10A	5A	4A	2.5A	1.25A
Current range	0-10A	0-5A	0-4A	0-2.5A	0-1.25A
Rated power	50W	60W	60W	60W	60W
Ripple & noise (max MVP-P)note3	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p
Voltage tolerance note4	±2%	±1.5%	±1.0%	±1.0%	±1.0%
Line regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load regulation	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%
Setup, rise time	1000ms, 70ms, 20ms/565Vdc 2000ms, 70ms, 10ms/325Vdc (at full load)				
Status indicator	Green LED				
Protection					
Over load	105% - 135% of the rated output power				
	Output voltage <50%: Hiccup mode, recover automatically after fault condition is removed				
	Output voltage 50% - 100%: constant current mode, recover automatically after fault condition is removed				
Over voltage	6.2-7.2V	16-18V	19.5-22.5V	31-37V	58-60.5V
	Protection mode: Output shutdown, recoverable after power reset				
Over temperature	Protection mode: Output shutdown, recoverable after power reset				
DC OK Signal	maximum relay contact rating: 30V / 1A resistive load				
Safety and EMC					
Withstand voltage	I/P-O/P:4.7KVAC I/P-FG:2.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC				
Insulation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
Safety standard	Reference U161010, BS EN/EN61558-2-16, AS/NZS 62368.1				
EMC emission	Parameter	Standard			Test Level/Note
	Conducted	EN55032 (CISPR32)			Class B
	Radiated	EN55032 (CISPR32)			Class B
	Harmonic Current	EN 61000-3-2			Class A
	Voltage Flicker	EN 61000-3-3		
EMC immunity	EN55035, EN61000-6-2, EN61204-3				
	Parameter	Standard			Test Level/Note
	ESD	EN 61000-4-2			Level 3, 8KV air; Level 2, 4KV contact, criteria A
	Radiated Susceptibility	EN 61000-4-3			Level 3, 10V/m; criteria A
	EFT/Burst	EN 61000-4-4			Level 3, 2KV/5KHz, criteria A
	Surge	EN 61000-4-5			Level 4, 2KV/Line-Line, 4KV/Line-Earth, criteria A
	Conducted	EN 61000-4-6			Level 3, 10V, criteria A
	Magnetic Field	EN 61000-4-8			Level 4, 30A/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					
Working temperature	-30~+85°C (Please refer to the "derating curve)				
Working humidity	20~90% RH, No condensation				
Storage temperature	-40~+85°C,				
Temperature coefficient	±0.03%/°C (0~60°C)				
Vibration resistance	Component: 10~ 500Hz, 2G 10min/Circle 60min in each X,Y,Z direction; Installation:IEC60068-2-6				
Altitude	2000m				
Others					
MTBF	≥313.7K hrs, MIL-HDBK-217F (25°C)				
Weight	0.45Kg				
Dimension	32*125.2*102mm				

Data	Model	Model
	MLD 50W 10A/5V	MLD060-05V7
	MLD 60W 5A/12V	MLD060-12V7
	MLD 60W 4A/15V	MLD060-15V7
	MLD 60W 2.5A/24V	MLD060-24V7
	MLD 60W 1.25A/48V	MLD060-48V7
Accessory	Description	Model

Installation instruction



Pin Numbering	Function
1	DC output -V
2	DC output +V
3, 4	Relay Contact

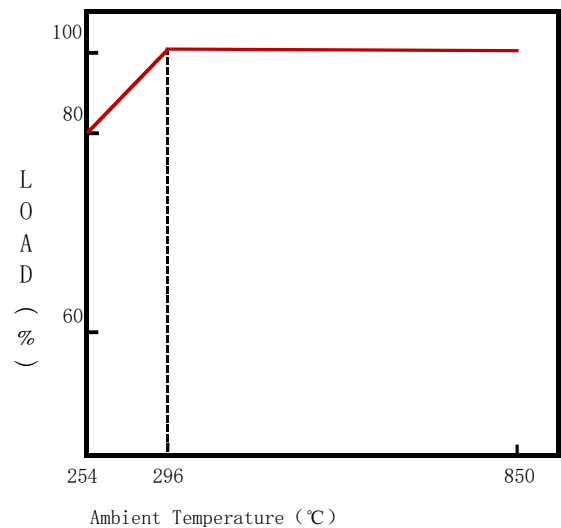
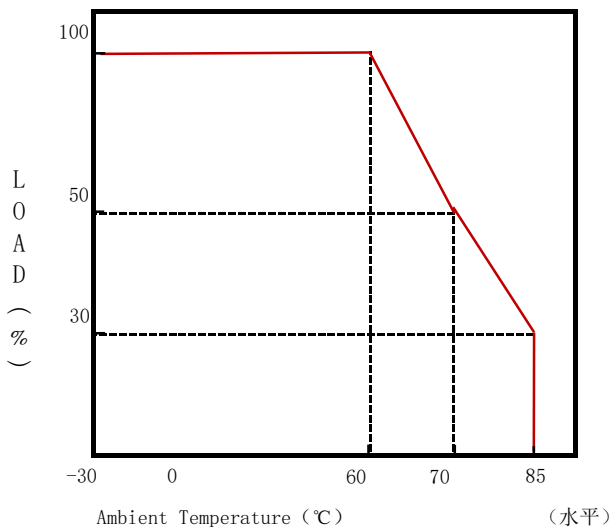
Terminal Block Pin Def

Pin Numbering	Function
1	FG (⊥)
2	DC output -V
3	DC output +V

DC OK Signal

contact closure	power on/DC normal
contact open	power off/DC fault
contact (max.)	30V/1A resistive load

Derating Curve



Note:

- 1: Under low input voltage conditions, output derating is required. Please refer to the derating curve for specifics.
- 2: Unless otherwise specified, all specifications are tested at an input of V2: 24Vdc; V3: 48Vdc, rated load, and 25°C ambient temperature.
- 3: Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor
- 4: Tolerance: includes set up tolerance, line regulation and load regulation.
- 5: When operating at an altitude higher than 2000 meters (6500 feet), the ambient temperature for fanless models decreases by 3.5°C per 1000 meters, and for models with fans, it decreases by 5°C per 1000 meters.
6. Installation distance: It is recommended to have a distance of 40 mm from the top, 20 mm from the bottom, 5 mm from the left, and 5 mm from the right when the unit is loaded at full power permanently.