Single Output Industrial DIN RAIL

MODEL	NDR-12U250	NDR-24U250	NDR-48U250
OUTPUT VOLTAGE	12V	24V	48V
CURRENT RANGE	0-18 A	0-10.4 A	0-5.2 A

Features:

- -Universal AC input 90~264Vac
- -Built-in active PFC function
- -Protections:Short circuit / Overload / Over voltage / Over temperature
- -Can be installed on DIN rail TS-35/7.5 or 15
- -The body width is only 50mm
- -100% full load burn-in test
- -LED indicator for power on
- -Built-in DC OK relay contact(optional)
- -Redundant function(NDR-250R)
- -High efflciency/High reliability
- -3 years warranty
- -Compliance to IEC/EN/UL 62368-1

SELV

INPUT

INPUT VOLTAGE	90~264Vac 127~370Vdc (Refer to the derating curve of "Loading and Input voltage")
POWER FACTORY	0.95
FREQUENCY RANGE	47~63Hz
EFFICIENCY	91.5%@12V 93%@24V 94%@48V
AC INPUT CURRENT	⩽3A@115Vac ⩽1.5A@230Vac
AC INRUSH CURRENT	20A@115Vac 40A@230Vac
LEAKAGE CURRENT	⩽ 2mA/240Vac

PROTECTION

OVER LOAD	110%-140% rated power,Protection type: >0.2s, Shutdown,recovers automatically after repower on
SHORT CIRCUIT	Hiccup mode,recovers automatically after fault condition is removed
OVER VOLTAGE	Protection type: Shunt dowm,recovers after repower on
OVER TEMPERATURE	Protection type: Shunt dowm,recovers after temperature goes down

ENVIRONMENT

OPERATING TEMPERATURE	-30℃~+70℃ (Refer to the derating curve of "Loading and Ambient temperature")
OPERATING HUMIDITY	10~95%RH non-condensing
STORAGE TEMP., HUMIDITY	-40℃~+85℃ 10%~95%RH

WEIGHT & PACKING

MTBF	⩾1000Khrs.MIL-HDBK-217F(25℃)
PRODUCT DIMENSION	50x125.1x110mm(L*W*H)
NET WEIGHT	0.85KG
QUANTITY/CARTON	12PCS
GROSS WEIGHT	11.2KG

OUTPUT

DC OUTPUT	12V	24V	48V
OUTPUT CURRENT	18A	10.4A	5.2A
RATED POWER	216W	249.6W	249.6W
VOLTAGE TOLERANCE	±1%	±1%	±1%
VOLTAGE ADJ.RANG	12~14V	24~28V	48~55V
RIPPLE NOISE	100mV P-P(Max.)	150mV P-P(Max.)	250mV P-P(Max.)
HOLD UP TIME(Typ.)	14mS/230Vac 14mS/115Vac		

SAFETY & EMC

SAFTY	UL62368-1, EN62368-1, GB4943.1
WITHSTAND VOLTAGE	I/P-O/P:3KVac;I/P-FG:2KVac;O/P-FG:0.5KVac
ISOLATION	100M Ohms/500Vdc/25℃/70%RH

	Parameter	Standard	Test Lebel/Note
EMI	Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22,GB9254.1	Class B
	Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22,GB9254.1	Class B
	Harmonic current	BS EN/EN61000-3-2, GB17625.1	Class A
	Voltage flicker	BS EN/EN61000-3-3	------

EMS	BS EN/EN55035		
	Parameter	Standard	Test Lebel/Note
	ESD	BS EN/EN61000-4-2	Level 4,8KV air,Level2, 4KV contact,criteria A
	RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
	EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A
	Surge susceptibility	BS EN/EN61000-4-5	Level 3,1KV/L-N,2KV/L/N-FG criteria A
	Conducted susceptibility	BS EN/EN61000-4-6	Level 3, criteria A
	Magnetic field immunity	BS EN/EN61000-4-8	Level 4, criteria A
	Voltage dips and interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods,30% dip 25 periods,>95% interruptions 250 periods

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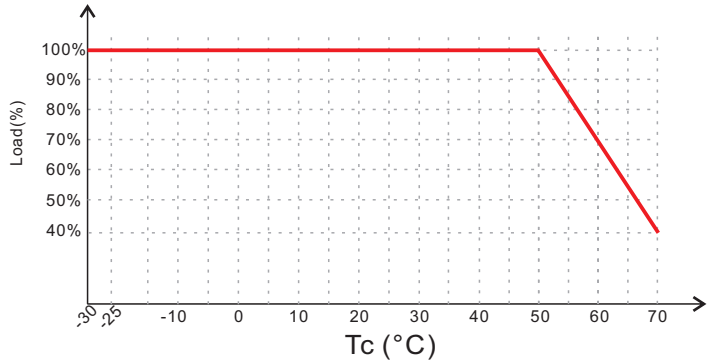
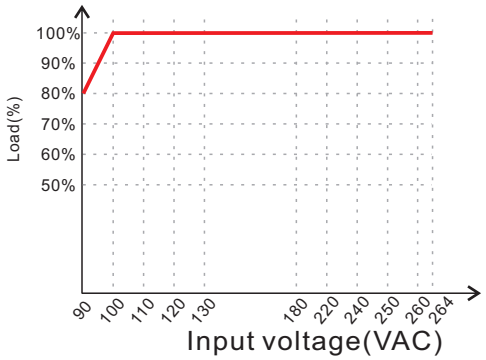
LOADING AND AMBIENT TEMPERATURE



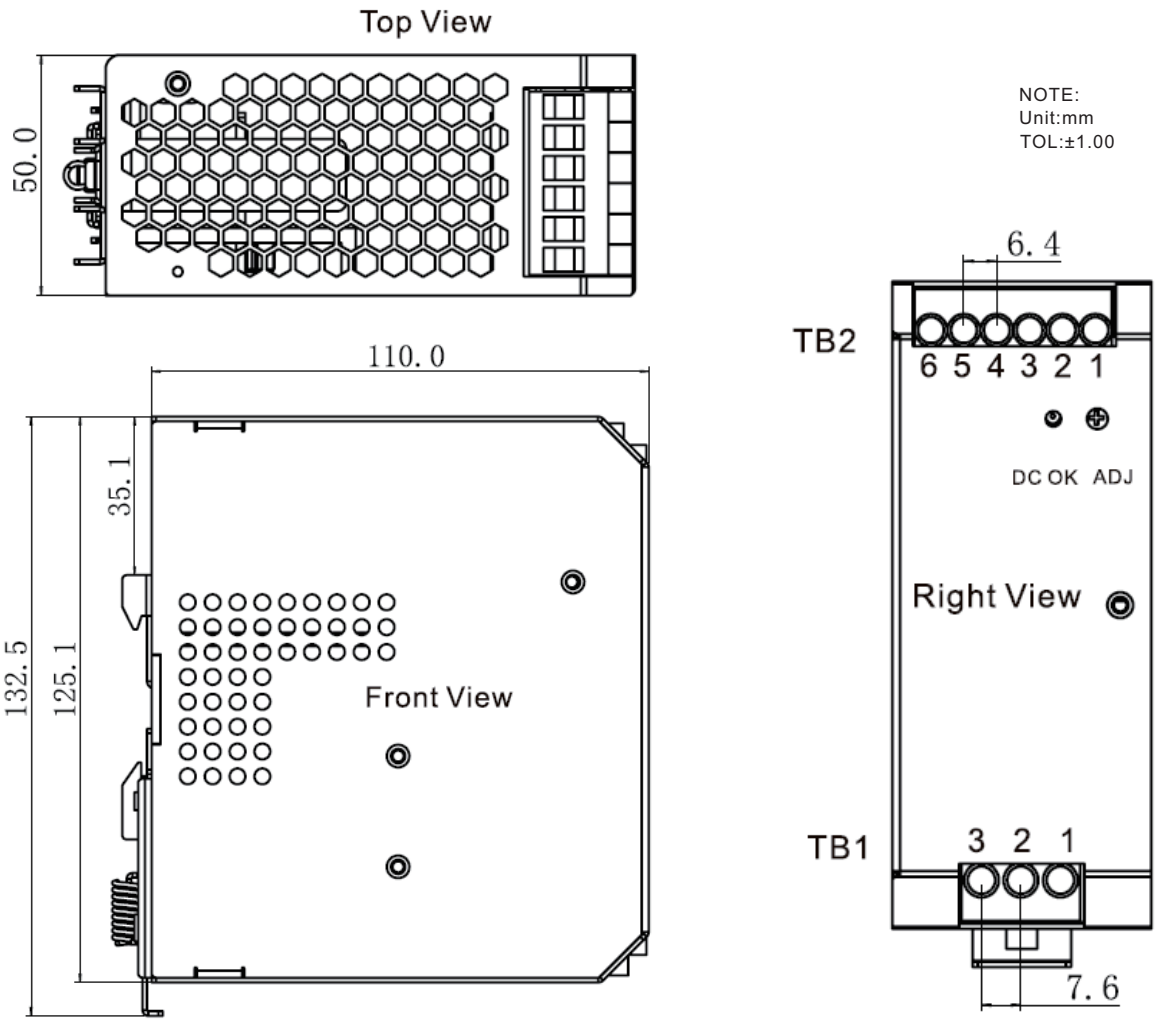
LOADING AND INPUT VOLTAGE



INSTALLATION GUIDE

Product is for indoor use.
- The power supply must be grounded before installation and power on.
- Short circuit or overload will cause power supply protection, resultingin abnormal operation of the load (LED, instrument equipment, etc.).
- Maintaining good ventilation and heat dissipation is crucial to the lifespan of the power supply. Do not install the product in a sealed high -temperature environment or near flammable and explosive materials. Donot block the power supply vent with foreign objects.
- The connection line between the power supply and the load should be asshort as possible. A connection line that is too long or too thin will cause a voltage drop on the line, resulting in insufficient LED brightness, uneven lighting, etc.
- The product has low voltage and high current. Be sure to tighten the terminals during installation to avoid heat caused by poor contact.- When installing the product, try to stay away from environments with relatively high temperatures.

PRODUCT DIMENSIONS



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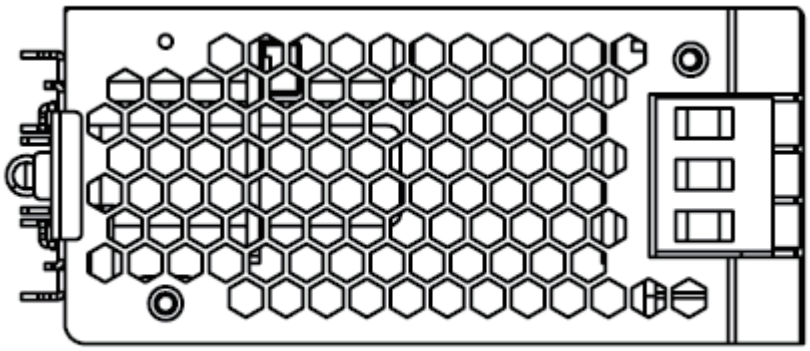

Bottom View

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

Terminal Pin No.Assignment

TB1		TB2	
Pin No.	Assignment	Pin No.	Assignment
1	AC/N	1,2	Relay contact(Optional)
2	AC/L	3,4	DC output -V
3	FG	5,6	DC output +V

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