



## Single Output Industrial DIN RAIL

MODEL	NDR-12U100	NDR-24U100	NDR-48U100
OUTPUT VOLTAGE	12V	24V	48V
CURRENT RANGE	0-6.6 A	0-4.2 A	0-2.1 A

SELV

### Features:

- Universal AC input 90~264Vac
- 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 30mm
- 100% full load burn-in test
- LED indicator for power on
- High reliability
- 3 years warranty
- Compliance to IEC/EN/UL 62368-1

### INPUT

INPUT VOLTAGE	90~264Vac 120~370Vdc (Refer to the derating curve of "Loading and Input voltage")
POWER FACTORY	0.6
FREQUENCY RANGE	47~63Hz
EFFICIENCY	86%@12V 89%@24V 90%@48V
AC INPUT CURRENT	≤0.5A@115Vac ≤0.3A@230Vac
AC INRUSH CURRENT	23A@115Vac 45A@230Vac
LEAKAGE CURRENT	≤1mA/240Vac

### PROTECTION

OVER LOAD	105%-135% rated power, Protection type: constant current limiting when output voltage > 50%Vo, otherwise hiccup, recovers automatically after fault condition removed
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed
OVER VOLTAGE	Protection type: Shunt down, recovers after repower on
OVER TEMPERATURE	Protection type: Shunt down, recovers after repower on;

### ENVIRONMENT

OPERATING TEMPERATURE	-20°C~+70°C (Refer to the derating curve of "Loading and Ambient temperature")
OPERATING HUMIDITY	10~95%RH non-condensing
STORAGE TEMP., HUMIDITY	-40°C~+85°C 10%~95%RH

### WEIGHT & PACKING

MTBF	≥1000Khrs. MIL-HDBK-217F(25°C)
PRODUCT DIMENSION	30x125.1x110mm(L*W*H)
NET WEIGHT	0.5KG
QUANTITY/CARTON	24PCS
GROSS WEIGHT	13KG

### OUTPUT

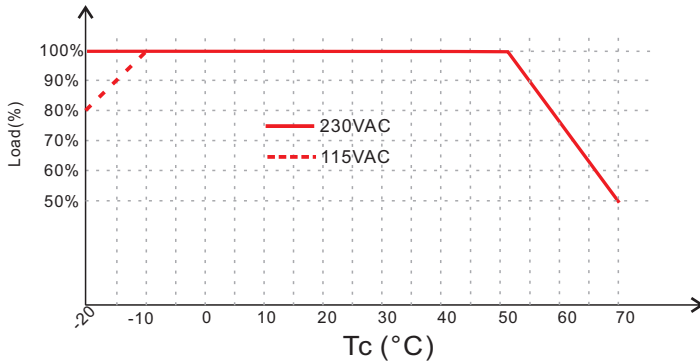
DC OUTPUT	12V	24V	48V
OUTPUT CURRENT	6.6A	4.2A	2.1A
RATED POWER	79.2W	100.8W	100.8W
VOLTAGE TOLERANCE	±1%	±1%	±1%
VOLTAGE ADJ. RANG	12~14V	24~28V	48~55V
RIPPLE NOISE	100mV P-P(Max.)	120mV P-P(Max.)	150mV P-P(Max.)
HOLD UP TIME(Typ.)	30mS/230Vac 7mS/115Vac		

### SAFETY & EMC

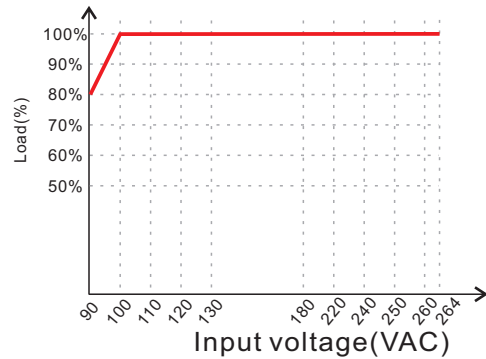
SAFTY	UL62368-1, EN62368-1, GB4943.1
WITHSTAND VOLTAGE	I/P-O/P:4KVac; I/P-FG:2KVac; O/P-FG:0.5KVac
ISOLATION	100M Ohms/500Vdc/25°C/70%RH

	Parameter	Standard	Test Label/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 Label/Note
	ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 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	

## LOADING AND AMBIENT TEMPERATURE



## LOADING AND INPUT VOLTAGE



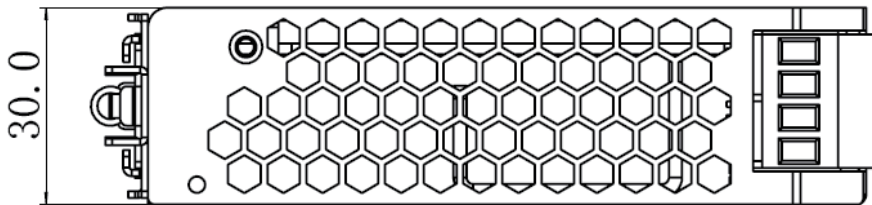
## INSTALLATION GUIDE

### 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, resulting in 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. Do not block the power supply vent with foreign objects.
  - The connection line between the power supply and the load should be as short 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.

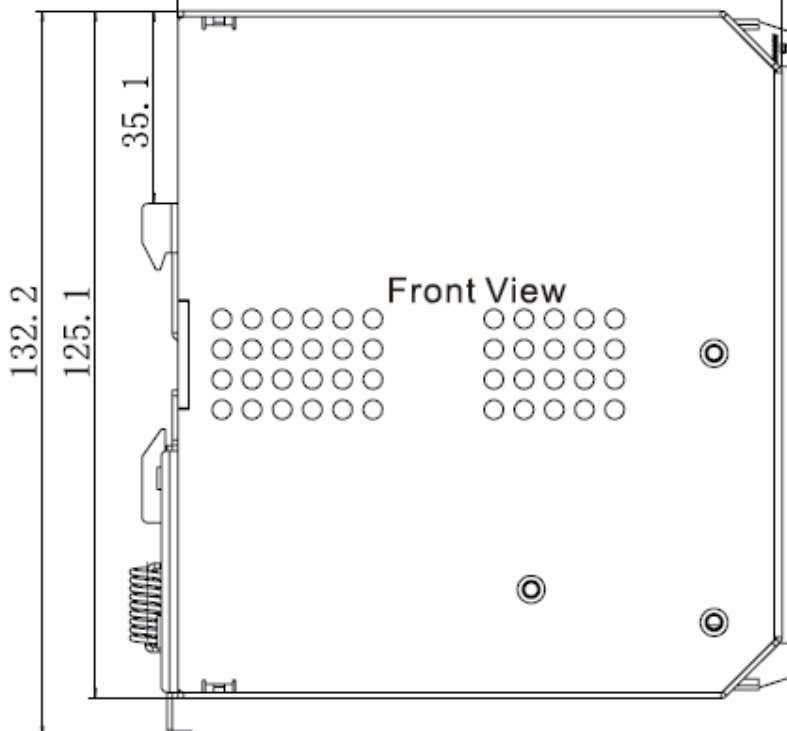
## PRODUCT DIMENSIONS

Top View

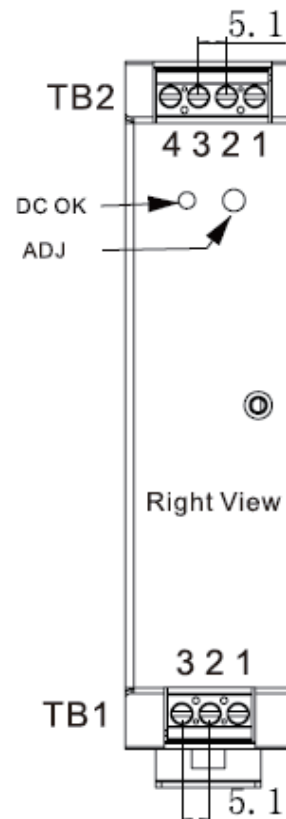


NOTE:  
Unit:mm  
TOL:±1.00

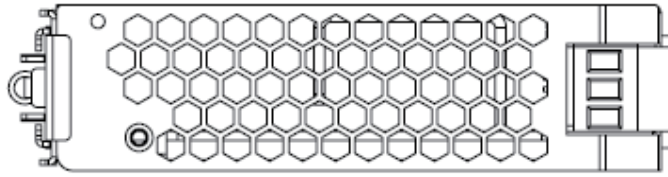
110.0



Front View



Right View



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	DC output -V
2	AC/L	3,4	DC output +V
3	FG		