

SELV    

Single Output Industrial DIN RAIL

MODEL	HDR-5U20	HDR-12U20	HDR-24U20	HDR-48U20
OUTPUT VOLTAGE	5V	12V	24V	48V
CURRENT RANGE	0-2.5 A	0-1.5 A	0-0.84 A	0-0.42 A

Features:

- Universal AC input 85~264Vac
- Protections:Short circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35/7.5 or 15
- The body width is only 17.5mm
- Isolation class II
- LED indicator for power on
- High reliability
- 3 years warranty
- Compliance to IEC/EN/UL 62368-1

INPUT

INPUT VOLTAGE	85~264Vac 120~370Vdc (Refer to the derating curve of "Loading and Input voltage")
POWER FACTORY	0.6
FREQUENCY RANGE	47~63Hz
EFFICIENCY	80%@5V 85%@12V 86%@24V 87%@48V
AC INPUT CURRENT	≤0.5A@115Vac ≤0.3A@230Vac
AC INRUSH CURRENT	25A@115Vac 45A@230Vac
LEAKAGE CURRENT	≤ 1mA/240Vac

PROTECTION

OVER LOAD	110%-160% rated power,Protection type: Hiccup mode, recovers automatically after fault condition is removed
SHORT CIRCUIT	Hiccup mode,recovers automatically after fault condition is removed
OVER VOLTAGE	Protection type: Clamping by zener diode

ENVIRONMENT

OPERATING TEMPERATURE	-30°C~+70°C (Refer to the derating curve of "Loading and Ambient temperature")
OPERATING HUMIDITY	20~90%RH non-condensing
STORAGE TEMP, HUMIDITY	-40°C~+85°C 10%~95%RH

WEIGHT & PACKING

MTBF	≥1000Khrs.MIL-HDBK-217F(25°C)
PRODUCT DIMENSION	17.5x90x54.5mm(L*W*H)
NET WEIGHT	0.08KG
QUANTITY/CARTON	180PCS
GROSS WEIGHT	15.4KG

OUTPUT

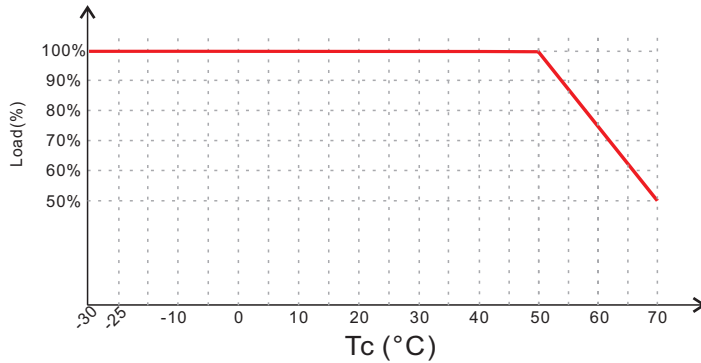
DC OUTPUT	5V	12V	24V	48V
OUTPUT CURRENT	2.5A	1.5A	0.84A	0.42A
RATED POWER	12.5W	18W	20.16W	20.16W
VOLTAGE TOLERANCE	±2%	±1%	±1%	±1%
VOLTAGE ADJ.RANG	5~5.5V	10.8~13.8V	21.6~28.8V	43.2~57.6V
RIPPLE NOISE	80mV P-P(Max.)	100mV P-P(Max.)		
HOLD UP TIME(Typ.)	30mS/230Vac 12mS/115Vac			

SAFETY & EMC

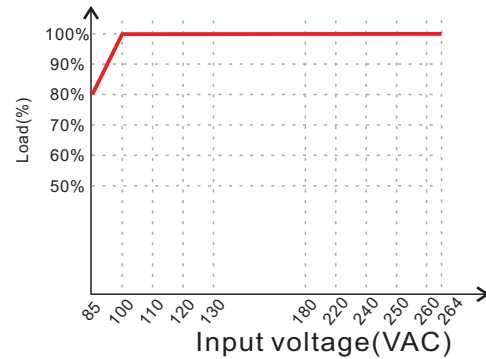
SAFTY	UL62368-1, EN62368-1, GB4943.1
WITHSTAND VOLTAGE	I/P-O/P:4KVac;
ISOLATION	100M Ohms/500Vdc/25°C/70%RH

	Parameter	Standard	Test Label/Note
	Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15/CISPR22,GB9254.1	Class B
EMI	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,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

LOADING AND AMBIENT TEMPERATURE



LOADING AND INPUT VOLTAGE

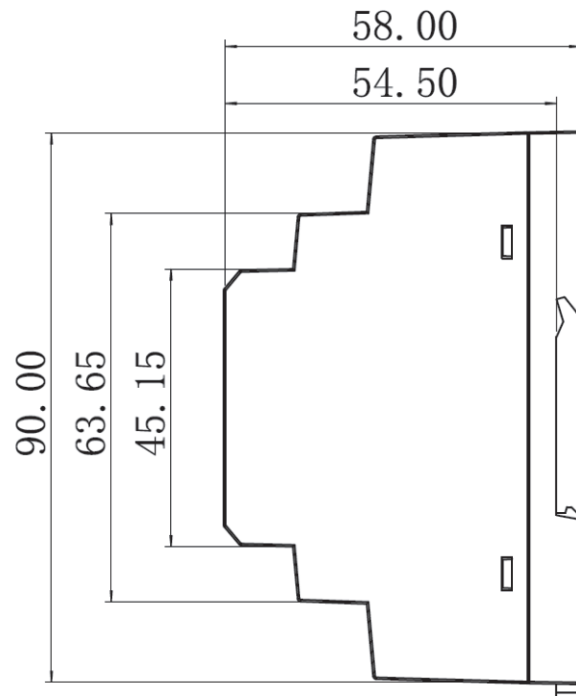
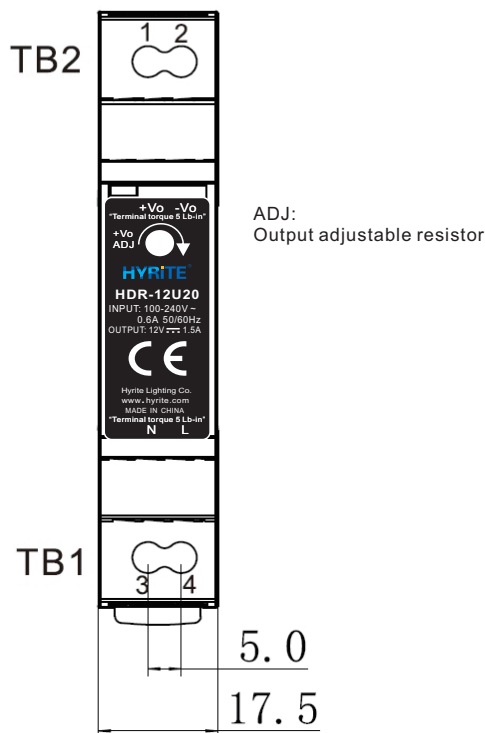


INSTALLATION GUIDE

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



NOTE:
Unit:mm
TOL:±1.00

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

Terminal Pin No. Assignment

TB1		TB2	
Pin No.	Assignment	Pin No.	Assignment
3	AC/N	2	DC output -V
4	AC/L	1	DC output +V