



30W Ultra Slim Step Shape DIN Rail































Features

- · Ultra slim design with 35mm(2SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- · Pass LPS (Limited power source)
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category III
- · LED indicator for power on
- 3 years warranty

Applications

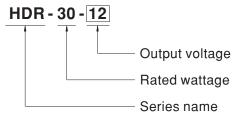
- Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

Description

HDR-30 is one economical ultra slim 30W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 35mm(2SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

HDR-30 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-30 a very competitive power supply solution for household and industrial applications.

Model Encoding





SPECIFICATION

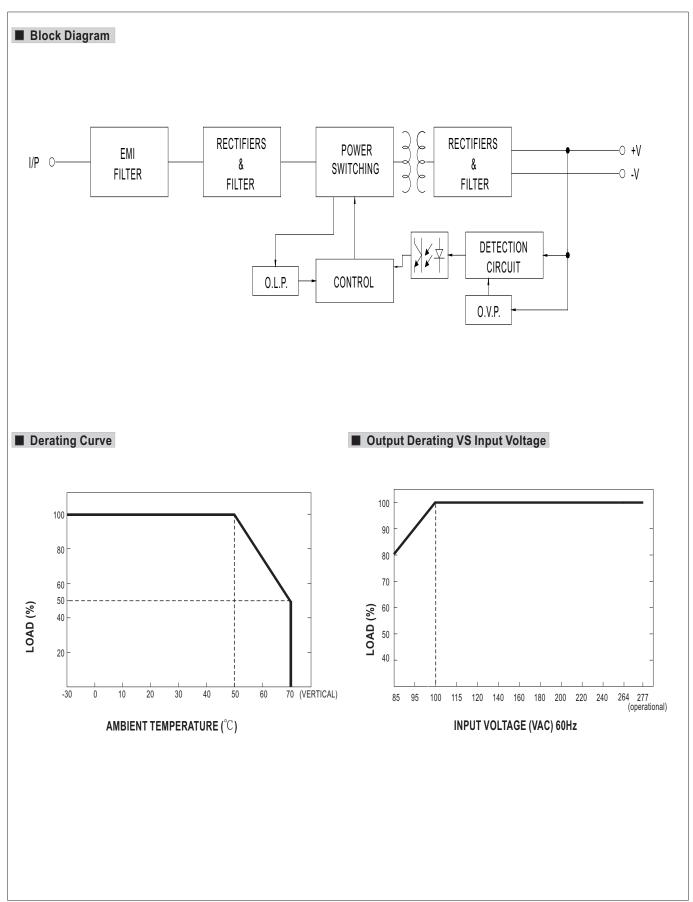
| MODEL | | | | HDR-30-24 | | |
|-----------------------------|------------------------------|---|--|---|--|--|
| | DC VOLTAGE | | | 24V | | |
| OUTPUT | RATED CURRENT | | | 1.5A | | |
| | CURRENT RANGE | | | 0 ~ 1.5A | | |
| | RATED POWER | | | 36W | | |
| | RIPPLE & NOISE (max.) Note.2 | | | 150mVp-p | | |
| | VOLTAGE ADJ. RANGE | | | 21.6 ~ 29V | | |
| | VOLTAGE TOLERANCE Note.3 | | | ±1.0% | | |
| | LINE REGULATION | | | ±1.0% | | |
| | LOAD REGULATION | | | ±1.0% | | |
| | | 500ma 50ma/220\/AC 500 | ma F0ma/11F\/AC at full load | 上1.0% | | |
| | SETUP, RISE TIME | 500ms, 50ms/230VAC 500ms, 50ms/115VAC at full load | | | | |
| | HOLD UP TIME (Typ.) | 30ms/230VAC 12ms/115VAC at full load | | | | |
| | VOLTAGE RANGE | 85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational) | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | · | 200 | | |
| INPUT | EFFICIENCY (Typ.) | | | 89% | | |
| | AC CURRENT (Typ.) | 0.88A/115VAC 0.48A/230\ | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 25A/115VAC 45A/230VAC | | | | |
| | OVERLOAD | 105 ~ 160% rated output power | | | | |
| PROTECTION | | | tage <50%, recovers automatically after | | | |
| PROTECTION | | | | ecovers automatically after fault condition is removed | | |
| | OVER VOLTAGE | 5.75 ~ 7.5V 15 ~ 1 | 1317 ==371 | 30 ~ 36V | | |
| | OVER VOLINGE | Protection type : Shut down o/p | | | | |
| | WORKING TEMP. | $-30 \sim +70^{\circ}\mathrm{C}$ (Refer to "Derating Curve") | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85 $^{\circ}$ C, 10 ~ 95% RH non-condensing | | | | |
| ENVIRONMENT | TEMP. COEFFICIENT | $\pm 0.03\%$ (°C (0 ~ 50°C) RH non-condensing | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6 | | | | |
| | OPERATING ALTITUDE | 2000 meters | | | | |
| | OVER VOLTAGE CATEGORY | Ⅲ ; According to EN61558, EN50178,EN60664-1, EN62477-1 ; altitude up to 2000 meters | | | | |
| | SAFETY STANDARDS | UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1 | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:4KVAC | | | | |
| | ISOLATION RESISTANCE | I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH | | | | |
| | EMC EMISSION | Parameter | Standard | Test Level / Note | | |
| | | Conducted | EN55032(CISPR32), CNS13438 | Class B | | |
| | | Radiated | EN55032(CISPR32), CNS13438 | Class B | | |
| | | 1 | | | | |
| | | Harmonic Current | EN61000-3-2 | Class A | | |
| SAFETY & | | Voltage Flicker | EN61000-3-3 | Class A | | |
| | | Voltage Flicker EN55024, EN55035, EN61000- | EN61000-3-3 6-2, EN61204-3 | | | |
| SAFETY & EMC (Note 4) | | Voltage Flicker EN55024, EN55035, EN61000- Parameter | EN61000-3-3 6-2, EN61204-3 Standard | Test Level /Note | | |
| EMC | | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A | | |
| EMC | | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A | | |
| EMC | EMC IMMUNITY | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 3, criteria A | | |
| EMC | EMC IMMUNITY | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest Surge | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 3, criteria A Level 4,2KV/L-N, criteria A | | |
| EMC | EMC IMMUNITY | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A | | |
| EMC | EMC IMMUNITY | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A Level 4, criteria A | | |
| EMC | EMC IMMUNITY | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A | | |
| EMC | EMC IMMUNITY MTBF | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 4,2KV/L-N, criteria A Level 3, criteria A Level 4, criteria A Level 4, criteria A >95% dip 0. 5 periods, 30% dip 25 periods, | | |
| EMC | | Voltage Flicker EN55024, EN55035, EN61000- Parameter ESD Radiated Susceptibility EFT/Burest Surge Conducted Magnetic Field Voltage Dips and interruptions | EN61000-3-3 6-2, EN61204-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 | Test Level /Note Level 3, 8KV air; Level 2, 4KV contact, criteria A Level 3, criteria A Level 4, criteria A | | |

- All parameters NOT specially file fluid are measured at 230 AC input, fated load and 25 C of animent temperature.
 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µf & 47 µf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)

 Distribibeeathby nt 性性用中国基本 经验证 经总统 经证券的 miwith fanless (6500ft).

https://www.tele-online.com/

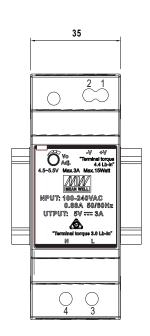


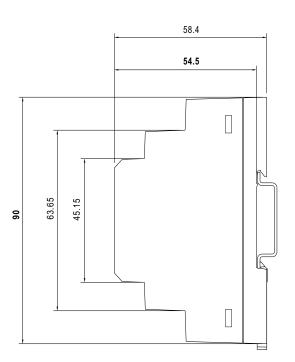


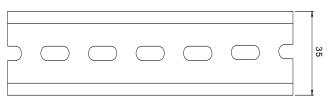


■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







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

Terminal Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|------------|
| 1 | +V | 3 | AC/L |
| 2 | -V | 4 | AC/N |

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html