



Наличие и актуальные цены на

**XDR-240E-12**

<https://www.mean-well.ru/store/XDR-240E-12/>



## ■ Features

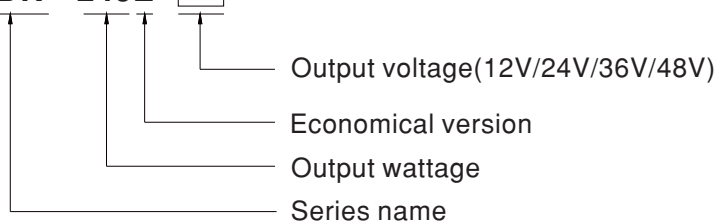
- 85~264Vac input with PFC
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 40mm slim width
- High efficiency up to 95.5% and no load power dissipation < 1.2W
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

## ■ Description

The XDR-240E series is a 240W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 40mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 95.5% and a low standby power consumption < 1.2W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIII compliance; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-240E series is a compact, high-performance, and highly reliable DIN rail power supply.

## ■ Model Encoding

**XDR - 240E - 24**



## ■ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

## ■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



## 240W AC/DC Economical Ultra Slim Industrial DIN Rail Power **XDR-240E** series

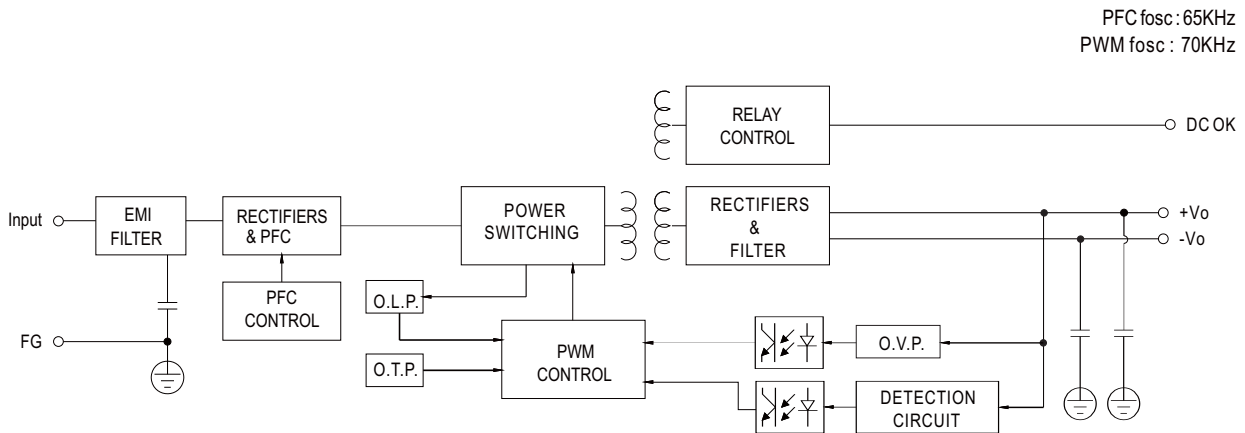
| SPECIFICATION                    |        | XDR-240E-12                                                                                                                                                                                                                               | XDR-240E-24 | XDR-240E-36           | XDR-240E-48 |
|----------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-------------|
| OUTPUT                           |        |                                                                                                                                                                                                                                           |             |                       |             |
| DC VOLTAGE                       |        | 12V                                                                                                                                                                                                                                       | 24V         | 36V                   | 48V         |
| RATED CURRENT                    |        | 20A                                                                                                                                                                                                                                       | 10A         | 6.66A                 | 5A          |
| CURRENT RANGE                    |        | 0 ~ 20A                                                                                                                                                                                                                                   | 0 ~ 10A     | 0 ~ 6.66A             | 0 ~ 5A      |
| RATED POWER                      |        | 240W                                                                                                                                                                                                                                      |             |                       |             |
| RIPPLE & NOISE (max.)            | Note.2 | 100mVp-p                                                                                                                                                                                                                                  | 100mVp-p    | 120mVp-p              | 150mVp-p    |
| VOLTAGE ADJ. RANGE               |        | 12 ~ 15V                                                                                                                                                                                                                                  | 24 ~ 29V    | 36 ~ 42V              | 48 ~ 55V    |
| VOLTAGE TOLERANCE                | Note.3 | ± 2.0%                                                                                                                                                                                                                                    | ± 1.0%      | ± 1.0%                | ± 1.0%      |
| LINE REGULATION                  |        | ± 0.5%                                                                                                                                                                                                                                    | ± 0.5%      | ± 0.5%                | ± 0.5%      |
| LOAD REGULATION                  |        | ± 1.0%                                                                                                                                                                                                                                    | ± 1.0%      | ± 1.0%                | ± 1.0%      |
| SETUP, RISE TIME                 |        | 1200ms, 60ms/230Vac      2500ms, 150ms/115Vac at full load                                                                                                                                                                                |             |                       |             |
| HOLD UP TIME (Typ.)              |        | 20ms/230Vac      20ms/115Vac at full load                                                                                                                                                                                                 |             |                       |             |
| INPUT                            |        |                                                                                                                                                                                                                                           |             |                       |             |
| AC VOLTAGE RANGE                 |        | 85 ~ 264Vac                                                                                                                                                                                                                               |             |                       |             |
| DC VOLTAGE RANGE                 |        | 120 ~ 370Vdc                                                                                                                                                                                                                              |             |                       |             |
| NO LOAD POWER CONSUMPTION (Typ.) |        | 1W @115Vac & 230Vac                                                                                                                                                                                                                       |             | 1.2W @115Vac & 230Vac |             |
| FREQUENCY RANGE                  |        | 47 ~ 63Hz                                                                                                                                                                                                                                 |             |                       |             |
| POWDR FACTOR (Typ.)              |        | PF>0.95/230Vac   PF>0.98/115Vac at full load                                                                                                                                                                                              |             |                       |             |
| EFFICIENCY (Typ.)                |        | 94%                                                                                                                                                                                                                                       | 95.2%       | 95.5%                 | 95.5%       |
| AC CURRENT (Typ.)                |        | 2.6A/115Vac      1.3A/230Vac                                                                                                                                                                                                              |             |                       |             |
| INRUSH CURRENT (Typ.)            |        | COLD START   15A/115Vac      30A/230Vac                                                                                                                                                                                                   |             |                       |             |
| LEAKAGE CURRENT                  |        | <1mA / 240Vac                                                                                                                                                                                                                             |             |                       |             |
| PROTECTION                       |        |                                                                                                                                                                                                                                           |             |                       |             |
| OVERLOAD                         |        | 105~130% rated output power                                                                                                                                                                                                               |             |                       |             |
|                                  |        | Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed<br>Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed |             |                       |             |
| OVER VOLTAGE                     |        | Max. 18V                                                                                                                                                                                                                                  | Max. 35V    | Max. 50V              | Max. 63V    |
|                                  |        | Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                                                                                                    |             |                       |             |
| OVER TEMPERATURE                 |        | Protection type : Shut down o/p voltage,recovers automatically after temperature goes down                                                                                                                                                |             |                       |             |
| FUNCTION                         |        |                                                                                                                                                                                                                                           |             |                       |             |
| DC OK RELAY CONTACT              |        | Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load                                                                                                                                                                          |             |                       |             |
| ENVIRONMENT                      |        |                                                                                                                                                                                                                                           |             |                       |             |
| WORKING TEMP.                    |        | -40 ~ +70℃ (Refer to "Derating Curve")                                                                                                                                                                                                    |             |                       |             |
| WORKING HUMIDITY                 |        | 20 ~ 95% RH non-condensing                                                                                                                                                                                                                |             |                       |             |
| STORAGE TEMP., HUMIDITY          |        | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                                                                                                                                    |             |                       |             |
| TEMP. COEFFICIENT                |        | ± 0.03% /℃ (0 ~ 50℃)                                                                                                                                                                                                                      |             |                       |             |
| VIBRATION                        |        | Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6                                                                                                                              |             |                       |             |



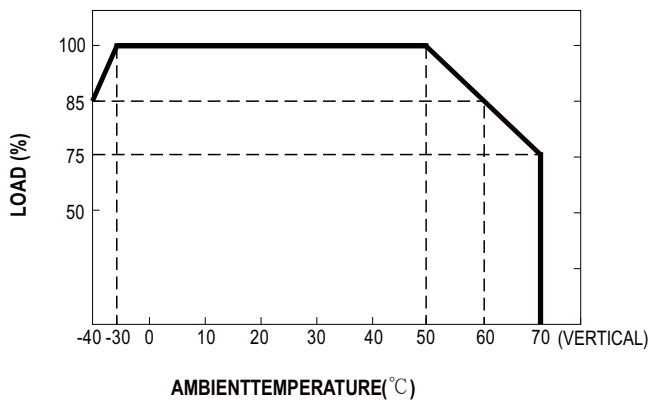
## 240W AC/DC Economical Ultra Slim Industrial DIN Rail Power **XDR-240E** series

| SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                    | XDR-240E-12                                                                                                                                                                                                                                                                                               | XDR-240E-24 | XDR-240E-36                                                        | XDR-240E-48 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------|-------------|
| SAFETY & EMC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                    | Note.6                                                                                                                                                                                                                                                                                                    |             |                                                                    |             |
| SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                    | UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; <b>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquiries</b> |             |                                                                    |             |
| OVER VOLTAGE CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Note.4                                                                             | IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m )<br>IEC/EN/UL 61010 (OVC II, altitude up to 5000m )<br>IEC/EN 62368-1 (OVC II, altitude up to 5000m )                                                                                                                                                |             |                                                                    |             |
| SAFETY EXTRA-LOW VOLTAGE(SELV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                    | IEC/EN 61558-2-16 (SELV )<br>IEC/EN/UL 61010-2-201 (SELV )<br>IEC/EN 62368-1 (SELV / ES1 )                                                                                                                                                                                                                |             |                                                                    |             |
| WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                    | I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac                                                                                                                                                                                                                                           |             |                                                                    |             |
| ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                    | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500Vdc/25℃/ 70%RH                                                                                                                                                                                                                                                      |             |                                                                    |             |
| EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Parameter                                                                          | Standard                                                                                                                                                                                                                                                                                                  |             | Test Level / Note                                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Conducted                                                                          | BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936                                                                                                                                                                                                                                                      |             | Class B                                                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Radiated                                                                           | BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936                                                                                                                                                                                                                                                      |             | Class B                                                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Harmonic Current                                                                   | BS EN/EN61000-3-2                                                                                                                                                                                                                                                                                         |             | Class A                                                            |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Voltage Flicker                                                                    | BS EN/EN61000-3-3                                                                                                                                                                                                                                                                                         |             | -----                                                              |             |
| EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BS EN/EN55035 , BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)                |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Parameter                                                                          | Standard                                                                                                                                                                                                                                                                                                  |             | Test Level / Note                                                  |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ESD                                                                                | BS EN/EN61000-4-2                                                                                                                                                                                                                                                                                         |             | Level 3, 8KV air ; Level 2, 4KV contact; criteria A                |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Radiated                                                                           | BS EN/EN61000-4-3                                                                                                                                                                                                                                                                                         |             | Level 3, 10V/m ; criteria A                                        |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EFT / Burst                                                                        | BS EN/EN61000-4-4                                                                                                                                                                                                                                                                                         |             | Level 3, 2KV ; criteria A                                          |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Surge                                                                              | BS EN/EN61000-4-5                                                                                                                                                                                                                                                                                         |             | Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Conducted                                                                          | BS EN/EN61000-4-6                                                                                                                                                                                                                                                                                         |             | Level 3, 10V ; criteria A                                          |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Magnetic Field                                                                     | BS EN/EN61000-4-8                                                                                                                                                                                                                                                                                         |             | Level 4, 30A/m ; criteria A                                        |             |
| OTHERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                    |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |
| MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1723.2K hrs min. Telcordia SR-332 (Bellcore) ; 324.4K hrs min. MIL-HDBK-217F (25℃) |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |
| DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 40*125.2*116mm (W*H*D)                                                             |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |
| PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 610g; 16pcs/12.2Kg/1.27CUFT                                                        |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |
| NOTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                    |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |
| 1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).<br>5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.<br>In case the adjacent device is a heat source, 15mm clearance is recommended.<br>6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )<br>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a> |                                                                                    |                                                                                                                                                                                                                                                                                                           |             |                                                                    |             |

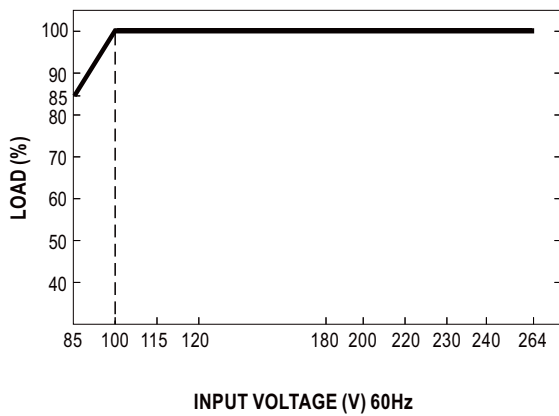
## ■ Block Diagram



## ■ Derating Curve



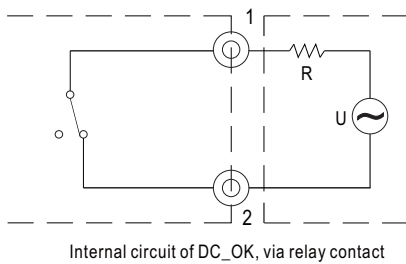
## ■ Static Characteristics



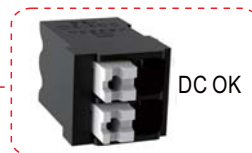
## ■ Function Manual

### 1.DC OK Relay Contact

|                        |                                      |
|------------------------|--------------------------------------|
| Contact Close          | PSU turns ON / DC OK.                |
| Contact Open           | PSU turns OFF / DC Fail.             |
| Contact Ratings (max.) | 30Vdc/1A, 30Vac/0.5A resistive load. |



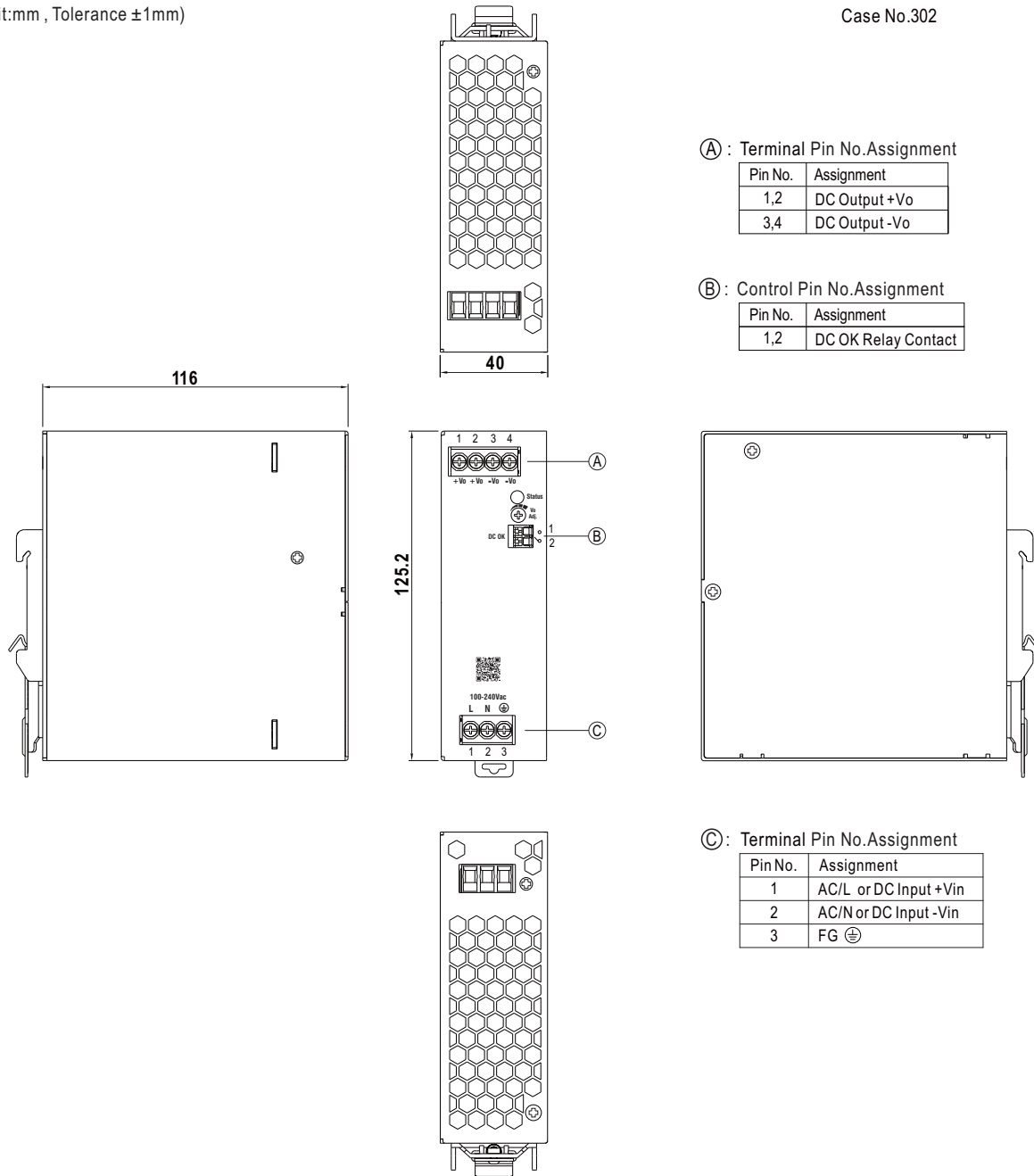
External voltage source (U) and resistor (R)  
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)



## ■ Mechanical Specification

(Unit:mm , Tolerance  $\pm 1$ mm)

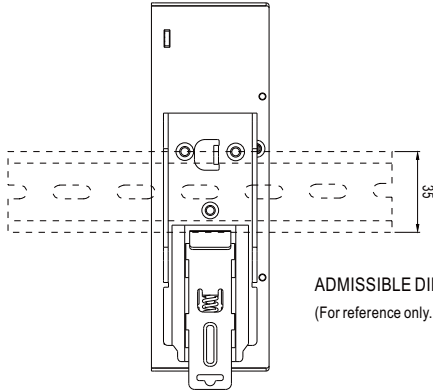
Case No.302



## ■ Recommend Wiring

|                       |                   | AC Input T.B          | DC Output T.B         | Signal connector        |
|-----------------------|-------------------|-----------------------|-----------------------|-------------------------|
| Solid Wire            |                   | 6mm <sup>2</sup> max. | 6mm <sup>2</sup> max. | 1.5mm <sup>2</sup> max. |
| A.W.G                 | XDR-240E-12       | 20~10 AWG             | 14~10 AWG             | 24~16 AWG               |
|                       | XDR-240E-24/36/48 |                       | 18~10 AWG             |                         |
| Wire Stripping Length |                   | 7~8mm                 | 7~8mm                 | 8~9mm                   |
| Screw Terminal Torque |                   | 5 Lb-In               | 5 Lb-In               | /                       |

#### ■ Installation Instruction



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15  
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.  
For installation details, please refer to the Instruction manual.

#### ■ Installation Manual

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