



### Features

- 3-phase, 340~550VAC wide range input (2-phase operation possible)
- Slim width
- Built-in active PFC function (TDR-480/960)
- Built-in passive PFC function (TDR-240)
- High efficiency up to 94.5%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508 / UL61010-1 Industrial control equipment approved
- Current sharing up to 3840W(3+1) for TDR-960
- Built-in DC OK relay contact (optional for TDR-480)
- 3 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

| Model No.                       | TDR-240   | TDR-480   | TDR-960                      |
|---------------------------------|---|---|------------------------------|
| AC input voltage range          | 3-phase 340~550VAC (2-phase operation possible), 480~780VDC   |   |                              |
| AC input current (Typ.)         | 0.69A / 400VAC, 0.6A / 500VAC   | 0.85A / 400VAC, 0.7A / 500VAC   | 2.0A / 400VAC, 1.4A / 500VAC |
| DC adjustment range             | 24V: 24~28V, 48V: 48~55V  |   |                              |
| Overload protection             | 105%~130% rated output power, constant current limiting, unit will shut down after 3 sec., re-power on to recover 105%~130% rated output power, constant current limiting, unit will hiccup after 3 sec.(TDR-240) |   |                              |
| Over voltage protection         | Range   | 29~33V for 24V model, 56~65V for 48V model (30~36V for TDR-240-24)  |                              |
|                                 | Type  | Shut down o/p voltage, re-power on to recover<br>Hiccup mode, recovers automatically after temperature goes down. |                              |
| Over temperature protection     | Shut down o/p voltage, auto-recovery after temperature goes down  |   |                              |
| Withstand voltage               | I/P-O/P:4.87kVAC I/P-FG:2.4kVAC<br>O/P-FG:0.5kVAC O/P-DC OK: 0.5kVAC  | I/P-O/P:3kVAC I/P-FG:2kVAC O/P-FG:0.5kVAC<br>O/P-DC OK: 0.5kVAC(TDR-960; optional for TDR-480)                    |                              |
| Working temperature             | -30~+70°C (refer to output derating curve)  |   |                              |
| Safety standards                | UL61010-1, UL61010-2-201,<br>EAC TP TC 004, EN61558-2-16 approved   | UL508, IEC62368-1, EAC TP TC 004 approved   |                              |
| EMC standards                   | EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN55024, EAC TP TC 020, EN61000-6-2, heavy industry level  |   |                              |
| Connection (screw DIN terminal) | I/P: 4 poles, O/P: 4 poles  |   | I/P: 4 poles, O/P: 6 poles   |
| Dimension (WxHxD)(mm)           | 63x125.2x113.5  | 85.5x125.2x128.5  | 110x125.2x150                |

### 240W

UL US EAC CE

| Model No.  | Output     | Tol.  | R&N   | Effi. |
|------------|------------|-------|-------|-------|
| TDR-240-24 | 24V, 0~10A | ±1.0% | 100mV | 92%   |
| TDR-240-48 | 48V, 0~5A  | ±1.0% | 120mV | 92%   |

### 960W

Parallel FC UL EAC CB CE

| Model No.  | Output     | Tol.  | R&N   | Effi. |
|------------|------------|-------|-------|-------|
| TDR-960-24 | 24V, 0~40A | ±1.0% | 180mV | 94.0% |
| TDR-960-48 | 48V, 0~20A | ±1.0% | 250mV | 94.5% |

### 480W

FC UL EAC CB CE

| Model No.  | Output     | Tol.  | R&N   | Effi. |
|------------|------------|-------|-------|-------|
| TDR-480-24 | 24V, 0~20A | ±1.0% | 150mV | 92.5% |
| TDR-480-48 | 48V, 0~10A | ±1.0% | 150mV | 93%   |

### WDR vs. TDR

| Series | Difference | AC Input Voltage |
|--------|------------|------------------|
| WDR    |            | 1φ ; 180~550VAC  |
| TDR    |            | 3φ ; 340~550VAC  |