

NEW



NDR-480-48

Output 48VDC, 480W

NDR-240-48

Output 48VDC, 240W

NDR-120-48

Output 48VDC, 120W

NDR-120-24

Output 24VDC, 120W

DR-4524

Output 24VDC, 45W

MDR-20-24

Output 24VDC, 20W



Having reliable and stable power for your industrial grade switches or converters is the best way to improve reliability and keep any down time to a minimum. CTC Union's safety certified AC to DC power supplies that are 100% compatible with all of our industrial grade switches and converters.

Features

- The series of industrial grade power supply have been fully tested with our industrial product for guaranteed compatibility and performance
- Universal AC input voltage range
- Protections: Short circuit / Overload / Over voltage/Over temperature
- Cooling by free air convection
- UL508, TUV, CB, CE safety approved
- Heavy industry grade EMS EN61000-6-2 approved
- 3 years warranty

Specifications

| Model Name | | NDR-480-48 | NDR-240-48 | NDR-120-48 | NDR-120-24 |
|-------------|---------------------------|---|---|---|---|
| Output | Dc Voltage | 48V | 48V | 48V | 24V |
| | Rated Current | 10A | 5A | 2.5A | 5A |
| | Current Range | 0~5A | 0~5A | 0~2.5A | 0 ~ 5A |
| | Rated Power | 480W | 240W | 120W | 120W |
| | Output Voltage Adj. Range | 48~55VDC | 48~55VDC | 48~55VDC | 24 ~ 28VDC |
| Input | Voltage Range | 90 ~ 264VAC / 127 ~ 370VDC | 90 ~ 264VAC / 127 ~ 370VDC | 90~264VAC / 127~370VDC | 90~264VAC / 127~370VDC |
| | Frequency Range | 47 ~ 63Hz | 47 ~ 63Hz | 47 ~ 63Hz | 47 ~ 63Hz |
| | Efficiency (Typ.) | 92.5% | 90% | 89% | 88% |
| Protection | Overload | 105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec, re-power on to recover | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed |
| | Over Voltage | 56 ~ 65V Protection type : Shut down o/p voltage, re-power on to recover | 56 ~ 65V Protection type : Shut down o/p voltage, re-power on to recover | 56~65V Protection type : Shut down o/p voltage, re-power on to recover | 29 ~ 33V Protection type : Shut down o/p voltage, re-power on to recover |
| | Over Temperature | Shut down o/p voltage, recovers automatically after temperature goes down | Shut down o/p voltage, recovers automatically after temperature goes down | Shut down o/p voltage, re-power on to recover | Shut down o/p voltage, re-power on to recover |
| Indicator | LED | DC OK | DC OK | DC OK | DC OK |
| Housing | Dimension | 128.5x85.5x125.2mm (DxWxH) | 113.5x63x125.2mm (DxWxH) | 113.5x40x125.2mm (DxWxH) | 113.5x40x125.2mm (DxWxH) |
| | Installation Mounting | DIN Rail | DIN Rail | DIN Rail | DIN Rail |
| Environment | Working Temp | -20 ~ 70°C | -20 ~ 70°C | -20 ~ 70°C | -20 ~ 70°C |
| | Working Humidity | 20 ~ 95% RH non-condensing | 20 ~ 95% RH non-condensing | 20 ~ 95% RH non-condensing | 20 ~ 90% RH non-condensing |
| | Storage Temp., Humidity | -40 ~ 85°C, 10 ~ 95% RH | -40 ~ 85°C, 10 ~ 95% RH | -40 ~ 85°C, 10 ~ 95% RH | -20 ~ 85°C, 10 ~ 95% RH |
| | Vibration | Compliance to IEC60068-2-6 | Compliance to IEC60068-2-6 | Compliance to IEC60068-2-6 | Compliance to IEC60068-2-6 |

| | | | | | |
|--------------|-----------------------------|---|---|---|---|
| Safety & EMC | Safety Standards | UL508, TUV EN60950-1 approved | UL508, TUV EN60950-1 approved | UL508, TUV EN60950-1 approved | UL508, TUV EN60950-1 approved |
| | Withstand Voltage | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG: 0.5KVAC | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG: 0.5KVAC | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG: 0.5KVAC | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG: 0.5KVAC |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG >100M Ohm /500VD@25°C/ 70% RH | I/P-O/P, I/P-FG, O/P-FG >100M Ohm /500VD@25°C/ 70% RH | I/P-O/P, I/P-FG, O/P-FG >100M Ohm /500VD@25°C/ 70% RH | I/P-O/P, I/P-FG, O/P-FG >100M Ohm /500VD@25°C/ 70% RH |
| | EMC Emission | Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2, -3 | Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2, -3 | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2, -3 | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2, -3 |
| | EMC Immunity | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, (EN50082-2), heavy industry level, criteria A | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2) heavy industry level, criteria A |
| Others | PFC | PF>0.98/115VAC, PF>0.94/230VAC at full load | Built in Active PFC | | |
| | MTBF | 146.8K Hours MIL-HDBK-217F (25°C) | 230.2K Hours MIL-HDBK-217F (25°C) | 453.3K Hours MIL-HDBK-217F (25°C) | 453.3K Hours MIL-HDBK-217F (25°C) |
| | Waranty | 3 Years | 3 Years | 3 Years | 3 Years |

| Model Name | DR-4524 | MDR-20-24 | |
|--------------------|----------------------------------|---|---|
| Output | Dc Voltage | 24V | 24V |
| | Rated Current | 2A | 1A |
| | Current Range | 0 ~ 2A | 0~1A |
| | Rated Power | 48W | 24W |
| | Output Voltage Adj. Range | 21.6 ~ 26.4VDC | 21.6~26.4VDC |
| Input | Voltage Range | 85 ~ 264VAC / 120 ~ 370VDC | 85 ~ 264VAC / 120 ~ 370VDC |
| | Frequency Range | 47 ~ 63Hz | 47 ~ 63Hz |
| | Efficiency (Typ.) | 80% | 84% |
| Protection | Overload | 105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed | 105 ~ 160% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed |
| | Over Voltage | 27.6 ~ 32.4V Protection type : Shut off o/p voltage, clamping by zener diode | 27.6~32.4V Protection type : Shut down o/p voltage, re-power on to recover |
| Alarm Relay | DC OK Relay | DC OK Relay will Close In Normal Relay contact rating(max.) : 30V/1A resistive | |
| Indicator | LED | Power On | DC OK |
| Housing | Dimension | 67 x 78 x 93 mm (D x W x H) | 100 x 22.5 x 90mm (D x W x H) |
| | Installation Mounting | DIN Rail | DIN Rail |
| Environment | Working Temp | -10 ~ 50°C | -20 ~ 70°C |
| | Working Humidity | 20 ~ 90% RH non-condensing | 20 ~ 90% RH non-condensing |
| | Storage Temp., Humidity | -20 ~ 85°C , 10 ~ 95% RH | -40 ~ 85°C , 10 ~ 95% RH |
| | Vibration | Compliance to IEC60068-2-6 | Compliance to IEC60068-2-6 |
| Safety & EMC | Safety Standards | UL508 approved | UL508, TUV EN60950-1 approved |
| | Withstand Voltage | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG >100M Ohm /500VD@25°C/ 70% RH | I/P-O/P, I/P-FG, O/P-FG >100M Ohm /500VD@25°C/ 70% RH |
| | EMC Emission | Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2, -3 | Compliance to EN55011, EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2, -3 |
| | EMC Immunity | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A | Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A |
| Others | PFC | | |
| | MTBF | 364.6K hrs MIL-HDBK-217F (25°C) | 236.9K Hours MIL-HDBK-217F (25°C) |
| | Waranty | 3 Years | 3 Years |

Ordering Information

| Model Name | Input Voltage Range | Output Voltage | Output Voltage Adj. Range | Output Power | Operating Temperature |
|------------|----------------------------|----------------|---------------------------|--------------|-----------------------|
| NDR-480-48 | 90 ~ 264VAC / 127 ~ 370VDC | 48VDC | 48~55VDC | 480W | -20~ 70°C |
| NDR-240-48 | 90 ~ 264VAC / 127 ~ 370VDC | 48VDC | 48~55VDC | 240W | -20~ 70°C |
| NDR-120-48 | 90 ~ 264VAC / 127 ~ 370VDC | 48VDC | 48~55VDC | 120W | -20~ 70°C |
| NDR-120-24 | 90 ~ 264VAC / 127 ~ 370VDC | 24VDC | 24~28VDC | 120W | -20~ 70°C |
| DR-4524 | 85 ~ 264VAC / 120 ~ 370VDC | 24VDC | 21.6~26.4VDC | 48W | -10~ 50°C |
| MDR-20-24 | 85 ~ 264VAC / 120 ~ 370VDC | 24VDC | 21.6~26.4VDC | 24W | -20~ 70°C |