

Power Supplies

NDR-480-48 XDR-240E-48 MDR-40-48



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, UL61010, TUV, CB, CE safety approved
- Heavy industry grade EMS EN61000-6-2 approved
- 3 years warranty

Specifications

Model Name		NDR-480-48	XDR-240E-48	MDR-40-48
Output	Dc Voltage	48V	48V	48V
	Rated Current	10A	5A	0.83A
	Current Range	0~5A	0~5A	0~0.83A
	Rated Power	480W	240W	39.8W
	Output Voltage Adj. Range	48~55VDC	48~55VDC	48~56VDC
Input	Voltage Range	90 ~ 264VAC / 127 ~ 370VDC	85 ~ 264VAC / 120 ~ 370VDC	85 ~ 264VAC / 120 ~ 370VDC
	Frequency Range	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
	Efficiency (Typ.)	92.5%	95.5%	88%

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Model Name		NDR-480-48	XDR-240E-48	MDR-40-48
Protection	Overload	105 ~ 130% rated output power	105 ~ 130% rated output power	105 ~ 150% rated output power
		Protection type: Constant current limiting, unit will shut down after 3 sec, re-power on to recover	Protection type: Constant current limiting, recovers automatically after fault condition is removed	Protection type : Constant current limiting, recovers automatically after fault condition is removed
	Over Voltage	56 ~ 65V	Max. 63V	57.6~64.8V
		Protection type: Shut down o/p voltage, re-power on to recover	Protection type: Hiccup mode, recovers automatically after fault condition is removed	Protection type : Shut off 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	DC OK Relay will Close In Normal, Relay contact rating(max.): 30V/1A resistive
Alarm Relay	DC OK Relay			DC OK Relay will Close In Normal, Relay contact rating(max.): 30V/1A resistive
Indicator	LED	DC OK	DC OK	DC OK
Housing	Dimension (D x W x H)	128.5 x 85.5 x 125.2mm	116 x 40 x 125.2mm	100 x 40 x 90mm
	Installation Mounting	DIN Rail	DIN Rail	DIN Rail
Environment	Working Temp	-20 ~ 70°C	-40 ~ 70°C	-20 ~ 70°C
	Working Humidity	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	-20 ~ 85°C , 10 ~ 95% RH
	Vibration	Compliance to IEC60068-2-6	Compliance to IEC60068-2-6	Compliance to IEC60068-2-6
Safety & EMC	Safety Standards	UL508, TUV BS EN/EN62368-1	UL61010, TUV BS EN/EN62368-1	UL508, UL62368-1, TUV EN62368-1, Class I, Div. 2 Group A, B, C, D Hazardous Locations T4
	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG: 0.5KVAC	I/P-O/P:4KVAC, I/P-FG:2KVAC, O/P-FG: 1.5KVAC	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
	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), EN61204-3 Class B, EN61000-3-2, -3
	EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55035, EN61000-6-2, EN61204-3, heavy industry level, criteria A	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, EN55035, EN61000-6-2, EN61204-3, heavy industry level, criteria A	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55035, 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)	324.4K Hours MIL-HDBK-217F (25°C)	301.7K hrs MIL-HDBK-217F (25°C)
	Waranty	3 Years	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
XDR-240E-48	85 ~ 264VAC / 120 ~ 370VDC	48VDC	48~55VDC	240W	-40 ~ 70°C
MDR-40-48	85 ~ 264VAC / 120 ~ 370VDC	48VDC	48~56VDC	40W	-20 ~ 70°C