

DRP-240-48 DR-120-48 DR-120-24 DR-4524 MDR-40-24

Output 48VDC, 240W Output 48VDC, 120W Output 24VDC, 120W Output 24VDC, 45W Output 24VDC, 40W

Having reliable and stable power for your industrial grade 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

## **Feature**

- The series of industrial grade power supply have been fully tested with our industrial product for guaranteed compatibility and performance
- Protections: Short circuit / Overload / Over voltage
- LED indicator for power on

- Cooling by free air convection
- Installation mounting by Din Rail
- UL508, UL60950-1, CE approved
- Heavy industry grade EMS EN61000-6-2 approved
- 3 years warranty

## **Specifications**

S4 ~ 60V   58 ~ 65V   29 ~ 33V	Model Name		DRP-240-48	DR-120-48	DR-120-24
Output         Current Range Rated Power         0-5A 240W         0-25A 120W         0~5A 120W           Output Voltage Adjange         48 - 53VDC         48 - 53VDC         24 - 28VDC           Input         Protection Speak         85 ~ 264VAC / 120 ~ 370VDC         48 - 332VAC / 176 ~ 264VAC, 248 ~ 370VDC by switch         88 - 132VAC / 176 ~ 264VAC, 248 ~ 370VDC by switch           Input         Frequency Range         47 ~ 63Hz         48 ~ 60V         88 ~ 65V         88 ~ 65V         88 ~ 65V         48 ~ 65V <th></th> <th>Dc Voltage</th> <th>48V</th> <th>48V</th> <th>24V</th>		Dc Voltage	48V	48V	24V
Rated Power	Output	Rated Current	5A	2.5A	5A
Noting   Protection   Protect		9			
Notage   Range   Ran			240W	120W	120W
Voltage   Kange   85 ~ 264VAC / 120 ~ 370VDC   248 ~ 370VDC by switch   370VDC by switch   47 ~ 63Hz			48 ~ 53VDC	48~53VDC	
Efficiency (Typ.)   85%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   84%   85%   85%   84%   85		Voltage Range	85 ~ 264VAC / 120 ~ 370VDC		
Protection  Overload  Doerload  Doer	Input	Frequency Range	47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Protection type : Constant current limiting, recovers automatically after fault condition is removed 54 ~ 60V  Over Voltage Protection type : Shut down o/p voltage, re-power on to recover  Alarm Relay DC OK Relay Indicator LED Power On Power On Power On Dimension 100 x 125.5 x 125.2 mm (D x W x H) 100 x 65.5 x		Efficiency (Typ.)	85%	85%	84%
Protection    Imiting, recovers automatically after fault condition is removed   Imiting, recovers automatically after fault condition is removed   S8-65V   29 ~ 33V     Protection type : Shut down o/p voltage, re-power on to recover   Protection type : Shut down o/p voltage, re-power on to recover	Protection		105 ~ 150% rated output power	105 ~ 150% rated output power	105 ~ 150% rated output power
S4 ~ 60V   58 - 65V   29 ~ 33V		Overload	limiting, recovers automatically after	limiting, recovers automatically after	limiting, recovers automatically after
Alarm Relay   DC OK Relay   Indicator   LED   Power On   Power O			54 ~ 60V	58~65V	29 ~ 33V
Dimension   Dime		Over Voltage	7.	voltage,	
Dimension   100 x 125.5 x 125.2 mm (D x W x H)   100 x 65.5 x 125.2 mm (D x W x H)   100 x 65.5 x 125.2 mm (D x W x H)	Alarm Relay	DC OK Relay			
Installation   Mounting   DIN Rail   DIN Rail   DIN Rail   DIN Rail   DIN Rail   DIN Rail	Indicator	LED	Power On	Power On	Power On
Mounting   DIN Rail   DIN Rail   DIN Rail   DIN Rail   DIN Rail   DIN Rail	Housing	Dimension	100 x 125.5 x 125.2 mm (D x W x H)	100 x 65.5 x 125.2mm (D x W x H)	100 x 65.5 x 125.2mm (D x W x H)
Working Humidity   20 ~ 90% RH non-condensing   20 ~ 90% RH non-condensity   20 ~ 90% RH non-condensity   20 ~ 90% RH non-condensi			DIN Rail	DIN Rail	DIN Rail
Storage Temp., Humidity   Compliance to IEC60068-2-6   Compliance to IEC60068-2-6   Compliance to IEC60068-2-6		Working Temp	-10 ~ 70°C	-10 ~ 60°C	-10 ~ 60°C
Safety & EMC  Safety Standards  EMC Emission  Safety & EMC  EMC Immunity  FC  Built in Active PFC  ATRE  Safety Standards  Vibration  Compliance to IEC60068-2-6  UL508, UL60950-1 approved  Compliance to EN55011, EN55022  (CISPR22), EN61204-3 Class B, EN61000-3-2,-3  Compliance to EN55011, EN55022  (CISPR22) Class B, EN61000-3-2,-3  Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN55024, EN61000-6-2, (EN50082-2), criteria A  PFC  Built in Active PFC  289.9K hrs MIL-HDBK-217F  432.1Khrs MIL-HDBK-217F  432.1Khrs MIL-HDBK-217F		Working Humidity	20 ~ 90% RH non-condensing	20 ~ 90% RH non-condensing	20 ~ 90% RH non-condensing
Safety & EMC  EMC Emission  Safety & EMC  EMC Immunity  Safety & EMC  EMC Immunity  Safety & EMC  Safety & EMC  EMC Immunity  Safety Standards  UL508, UL60950-1 approved  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3 (CISPR22) Class B, EN61000-3-2,-3  Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN55024, EN61000-6-2, (EN50082-2), Criteria A  EMC Immunity  EMC Immunity  EMC Immunity  EMC Immunity  Safety & EMC  Safety Standards  UL508, UL60950-1 approved  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3 (CISPR22) Class B, EN61000-3-2,-3 (EN55024, EN61000-4-2, 3, 4, 5, 6, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2) heavy industry level, criteria A  EMC Immunity  EMC Immunity  Safety & EMC  Safety Standards  UL508, UL60950-1 approved  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3 (CISPR22) Class B, EN61000-3-2,-3 (EN55024, EN61000-4-2, 3, 4, 5, 6, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2) heavy industry level, criteria A  EMC Immunity  EMC Immunity  Safety & EMC  Safety Standards  Safety Stand	Environment		-20 ~ 85°C , 10 ~ 95% RH	-40 ~ 85°C , 10 ~ 95% RH	-20 ~ 85°C , 10 ~ 95% RH
Safety & EMC  EMC Emission  Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A  PFC  Built in Active PFC  289.9K hrs MIL-HDBK-217F  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2, -3  Compliance to EN61000-4-2, 3, 4, 5, 6,		Vibration	Compliance to IEC60068-2-6	Compliance to IEC60068-2-6	Compliance to IEC60068-2-6
EMC Emission (CISPR22), EN61204-3 Class B, EN61000-3-2, -3 (CISPR22) Class B, EN61000-4-2, 3, 4, 5, 6,		Safety Standards	UL508, UL60950-1 approved	UL508, UL60950-1 approved	UL508, UL60950-1 approved
Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A  PFC  Built in Active PFC  289.9K hrs MIL-HDBK-217F  At the compliance to EN61000-4-2, 3, 4, 5, 6, Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A criteria A  PFC  432.1Khrs MIL-HDBK-217F  432.1Khrs MIL-HDBK-217F  432.1Khrs MIL-HDBK-217F	Safety & EMC	EMC Emission	(CISPR22), EN61204-3 Class B,		
Others         MTRE         289.9K hrs MIL-HDBK-217F         432.1Khrs MIL-HDBK-217F         432.1Khrs MIL-HDBK-217F		EMC Immunity	8, 11, EN55024, EN61000-6-2, EN61204-3, heavy industry level,	8, 11, EN55024, EN61000-6-2, (EN50082-2),	6, 8, 11, EN55024, EN61000-6-2 (EN50082-2) heavy industry level,
Others MIRE	Others	PFC	Built in Active PFC		
		MTBF			
Waranty 3 Years 3 Years 3 Years		Waranty	3 Years	3 Years	3 Years

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Model Name		DR-4524	MDR-40-24		
	Dc Voltage	24V	24V		
Output	Rated Current	2A	1.7A		
	Current Range	0 ~ 2A	0 ~ 1.7A		
	Rated Power	48W	40.8W		
	Output Voltage Adj. Range	21.6 ~ 26.4VDC	24 ~ 30VDC		
Input	Voltage Range	85 ~ 264VAC / 120 ~ 370VDC	85 ~ 264VAC / 120 ~ 370VDC		
	Frequency Range	47 ~ 63Hz	47 ~ 63Hz		
	Efficiency (Typ.)	80%	88%		
Protection		105 ~ 150% rated output power	105 ~ 150% rated output power		
	Overload	Protection type: Constant current limiting, recovers automatically after fault condition is removed	Protection type: Constant current limiting, recovers automatically after fault condition is removed		
		27.6 ~ 32.4V	31.2 ~ 36V		
	Over Voltage	Protection type : Shut off o/p voltage, clamping by zener diode	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 40 x 90 mm (D x W x H)		
	Installation Mounting	DIN Rail	DIN Rail		
	Working Temp	-10 ~ 50°C	-20 ~ 70°C		
	Working Humidity	20 ~ 90% RH non-condensing	20 ~ 90% RH non-condensing		
Environment	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, UL60950-1 approved		
	EMC Emission	Compliance to EN55011, EN55022 (CISPR22) Class B, EN61000-3-2,-3	Compliance to EN55011, EN55022 (CISPR22), 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)	301.7K hrs MIL-HDBK-217F (25°C)		
	Waranty	3 Years	3 Years		

## Ordering Information

Model Name	Input AC Voltage Range	Output Voltage	Output Voltage Adj. Range	Output Power	Operating Temperture
DRP-240-48	85~264VAC	48VDC	48~53V	240W	-10 ~ +70 °C
DR-120-48	"88~132VAC, 176~264VAC"	48VDC	48~53VDC	120W	-10 ~ +50 °C
DR-120-24	"88~132VAC, 176~264VAC"	24VDC	24 ~ 28V	120W	-10 ~ +50 °C
DR-4524	85~264VAC	24VDC	21.6 ~ 26.4V	45W	-10 ~ +50 °C
MDR-40-24	85~264VAC	24VDC	24 ~ 30V	40W	-20 ~ +70 °C