










DIN-Rail Power Supplies

24/48 VDC power supplies for installation on a DIN rail

		24 VDC DIN-Rail Power Supplies					48 VDC DIN-Rail Power Supplies				
Model Name		DR-4524	DR-75-24	DR-120-24	MDR-40-24	MDR-60-24	DR-75-48	DR-120-48	DRP-240-48	SDR-480P-48	
											
Physical Characteristics and Temperature Limits											
Dimensions (mm)		78 x 67 x 93	55.5 x 100 x 125.2	65.5 x 100 x 125.2	40 x 90 x 100	40 x 90 x 100	55.5 x 100 x 125.2	65.5 x 100 x 125.2	125.5 x 125.5 x 100	85.5 x 125.2 x 128.5	
Weight		400 g	550 g	650 g	260 g	280 g	550 g	650 g	1.2 kg	1.6 kg	
Operating Temperature		-10 to 50°C (14 to 122°F)	-10 to 60°C (14 to 140°F)		-20 to 70°C (-4 to 158°F)		-10 to 60°C (14 to 140°F)		-10 to 70°C (14 to 158°F)	-25 to 70°C (-13 to 158°F)	
Max. operating temperature at Full load (refer to derating curve in QIG)		45°C			60°C	55°C	45°C		40°C at 110 VAC 55°C at 230 VAC	50°C	
Relative Humidity		20 to 90% RH non-condensing					20 to 90% RH non-condensing			10 to 95% RH non-condensing	
Power Requirements											
Output	Wattage	48 W	76.8 W	120 W	40 W	60 W	76.8 W	120 W	240 W	480 W	
	Voltage	24 VDC					48 VDC				
	Current Range	0 to 2 A	0 to 3.2 A	0 to 5 A	0 to 1.7 A	0 to 2.5 A	0 to 1.6 A	0 to 2.5 A	0 to 5 A	0 to 10 A	
	RIPPLE & NOISE	480 mVp-p	150 mVp-p	80mVp-p	150 mVp-p		240 mVp-p	100 mVp-p	150 mVp-p	120 mVp-p	
	Voltage Adjustment Range	21.6 to 26.4 VDC	24 to 28 V	24 to 28 V	24 to 30 V		48 to 53 V	48 to 53 V	48 to 53 V	48 to 55 V	
	Setup, Rise time at full load	800 ms, 60 ms at 230 VAC	1000 ms, 60 ms at 230 VAC or 1800 ms, 60 ms at 115 VAC	500 ms, 70 ms at 230 VAC or 500 ms, 70 ms at 115 VAC	500 ms, 30 ms at 115 or 230 VAC at full load		1000 ms, 60 ms at 230 VAC or 1800 ms, 60 ms at 115 VAC	500 ms, 70 ms at 115 or 230 VAC	800 ms, 40 ms at 115 or 230 VAC	1500 ms, 150 ms at 230 VAC 3000 ms or 150 ms at 115 VAC	
Input	Typical Hold up time at full load	60 ms at 230 VAC	60 ms at 230 VAC or 12 ms at 115 VAC	36 ms at 230 VAC or 32 ms at 115 VAC	50 ms at 230 VAC or 20 ms at 115 VAC		60 ms at 230 VAC or 12 ms at 115 VAC	36 ms at 230 VAC or 32 ms at 115 VAC	24 ms at 230 VAC or 24 ms at 115 VAC	14 ms at 230 VAC	
	Voltage Range	85 to 264 VAC (47 to 63 Hz), or 120 to 370 VDC		88 to 132 VAC, or 176 to 264 VAC (47 to 63 Hz) by switch, or 248 to 370 VDC	85 to 264 VAC (47 to 63 Hz) or 120 to 370 VDC		85 to 264 VAC (27 to 63 Hz) or 120 to 370 VDC	88 to 132 VAC, or 176 to 264 VAC (47 to 63 Hz) by switch, or 248 to 370 VDC	85 to 264 VAC (47 to 63 Hz) or 120 to 370 VDC	90 to 264 VAC or 127 to 370 VDC	
	Typical Efficiency	80%		84%	88%		81%	85%	85%	94%	
	Typical Current	1.5 A at 115 VAC, 0.75 A at 230 VAC	1.6 A at 115 V, 0.96 A at 230 V	2.6A at 115VAC, 1.6 A at 230 VAC	1.1 A at 115 VAC, 0.7 A at 230 VAC	1.8 A at 115 VAC, 1 A at 230 VAC	1.6 A at 115 V, 0.96 A at 230 V	2.6 A at 115 VAC, 1.6 A at 230 VAC	2.8 A at 115 VAC, 1.4 A at 230 VAC	5 A at 115 VAC, 2.5 A at 230 VAC	
	Inrush Current (cold start)	28 A at 115 VAC, 56 A at 230 VAC	20 A at 115 VAC, 40 A at 230 VAC	20 A at 115 VAC, 40 A at 230 VAC	30 A at 115 VAC, 60 A at 230 VAC	30 A at 115 VAC, 60 A at 230 VAC	20 A at 115 VAC, 40 A at 230 VAC	20 A at 115 VAC, 40 A at 230 VAC	27 A at 115 VAC, 45 A at 230 VAC	40 A at 115 VAC 80 A at 230 VAC	
Overload Protection	Rated Output Power	105 to 150%								110 to 150%	
	Protection Type	Constant current limiting, recovers automatically after fault condition is removed									
Over-Voltage Protection	Over-Voltage Range	27.6 to 32.4 V	29 to 33 V		31.2 to 36 V		58 to 65 V		54 to 60 V	56 to 65 V	
	Protection Type	Shut down operating voltage, re-power on to recover									
Reliability											
Safety Standards		EN 60950-1, UL 508 approved									
EMC Standards		EN 55022 Class B, EN 61000-4-2 at 3 at 4 at 5 at 6 at 8 at 11, ENV 50204, EN 61000-3-2, EN 50082-2									
Warranty		3 years (see www.moxa.com at warranty)									

Ordering Information

24 VDC DIN-Rail Power Supplies

DR-4524: 45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature

DR-75-24: 75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature

DR-120-24: 120W/5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature

MDR-40-24: 40W/1.7A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -20 to 70°C operating temperature

MDR-60-24: 60W/2.5A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -20 to 70°C operating temperature

48 VDC DIN-Rail Power Supplies

DR-75-48: 75W/1.6A DIN-rail 48 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°C operating temperature

DR-120-48: 120W/2.5A DIN-rail 48 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature

DRP-240-48: 240W/5A DIN-rail 48 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 70°C operating temperature

SDR-480P-48: 480W/10A DIN-rail 48 VDC power supply with universal 90 to 264 VAC or 127 to 370 VDC input, -25 to 70°C operating temperature, current sharing up to 3840 W