

Power Supplies and Adapters

24/48 VDC DIN-rail Power Supplies



Model Name	24 VDC DIN-rail Power Supplies				48 VDC DIN-rail Power Supplies		
	HDR-60-24	NDR-120-24	MDR-40-24	MDR-60-24	NDR-120-48	NDR-240-48	
Physical Characteristics and Temperature Limits							
Dimensions	55.5 x 90 x 54.5 mm (2.19 x 3.54 x 2.15 inches)	40 x 125.2 x 113.5 mm (1.57 x 2.93 x 4.47 inches)	40 x 90 x 100 mm (1.57 x 3.54 x 3.94 inches)		40 x 125.2 x 113.5 mm (1.57 x 2.93 x 4.47 inches)	63 x 125.2 x 113.5 mm (2.48 x 4.93 x 4.47 inches)	
Weight	190 g (0.42 lb)	600 g (1.32 lb)	260 g (0.57 lb)	280 g (0.62 lb)	600 g (1.32 lb)	1,000 g (2.21 lb)	
Operating Temperature	-30 to 70°C (-22 to 158°F)	-20 to 70°C (-4 to 158°F)			-20 to 70°C (-4 to 158°F)		
Operating Temperature at Full Load (max.)	45°C (113°F)	45°C (113°F)	60°C (140°F)	55°C (131°F)	45°C (113°F)	50°C (122°F)	
Relative Humidity	20 to 90% (non-condensing)						
Power Requirements							
Output	Wattage	60 W	120 W	40 W	60 W	120 W	240 W
	Voltage	24 VDC				48 VDC	
	Current Range	0 to 2.5 A	0 to 5 A	0 to 1.7 A	0 to 2.5 A	0 to 2.5 A	0 to 5 A
	Ripple & Noise	150 mVp-p	120 mVp-p	150 mVp-p		150 mVp-p	150 mVp-p
	Voltage Adjustment Range	21.6 to 29 V	24 to 28 V	24 to 30 V		48 to 55 V	48 to 55 V
	Setup/Rise Time at Full Load	50 ms at 230 VAC, 50 ms at 115 VAC	60 ms at 230 VAC, 60 ms at 115 VAC	500 ms, 30 ms at 115 VAC, 230 VAC at full load		60 ms at 230 VAC, 60 ms at 115 VAC	100 ms at 230 VAC, 100 ms at 115 VAC
	Typical Hold-up Time at Full Load	30 ms at 230 VAC, 12 ms at 115 VAC	16 ms at 230 VAC, 10 ms at 115 VAC	50 ms at 230 VAC, 20 ms at 115 VAC		16 ms at 230 VAC, 10 ms at 115 VAC	28 ms at 230 VAC, 22 ms at 115 VAC
Input	Voltage Range	85 to 264 VAC (47 to 63 Hz), 120 to 370 VDC	90 to 264 VAC (47 to 63 Hz), 120 to 370 VDC	85 to 264 VAC (47 to 63 Hz), 120 to 370 VDC		90 to 264 VAC (47 to 63 Hz), 120 to 370 VDC	90 to 264 VAC (47 to 63 Hz), 120 to 370 VDC
	Typical Efficiency	85%	88%	88%		89%	90%
	Typical Current	1.2 A at 115 VAC, 0.8 A at 230 VAC	2.25 A at 115 VAC, 0.1.3 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	2.25 A at 115 VAC, 1.3 A at 230 VAC	2.5 A at 115 VAC, 1.3 A at 230 VAC
	Inrush Current (cold start)	30 A at 115 VAC, 60 A at 230 VAC	20 A at 115 VAC, 35 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, 35 A at 230 VAC	20 A at 115 VAC, 35 A at 230 VAC
Overload Protection	Rated Output Power	105 to 150%					
	Protection Type	Constant current limiting, recovers automatically after fault condition is removed					
Over-voltage Protection	Over-voltage Range	30 to 36 V	29 to 33 V	31.2 to 36 V		56 to 65 V	29 to 33 V
	Protection Type	Shut down operating voltage, must 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/warranty)						

AC Power Supplies

Locking barrel plugs, 12 VDC 0.5 A, 100-240 VAC (switch mode)



Model Name	PWR-12050-WPUSJP-S1	PWR-12050-WPEU-S1	PWR-12050-WPUK-S1	PWR-12050-WPAU-S1	PWR-12050-WPCN-S1
Input Rating					
Input Power	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Input Plug					
Plug Type	US/JP	EU	UK	AU	CN
Output Rating					
Output Power	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC
Output Plug					
Connector Type	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5
Outer Diameter	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)
Inner Diameter	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)
Physical Characteristics					
Dimensions	64 x 40.5 x 47.5 mm (2.52 x 1.59 x 1.87 in)	64 x 40.5 x 68.7 mm (2.52 x 1.59 x 2.71 in)	64 x 40.5 x 56.2 mm (2.52 x 1.59 x 2.21 in)	64 x 40.5 x 58.5 mm (2.52 x 1.59 x 2.30 in)	64 x 40.5 x 46.5 mm (2.52 x 1.59 x 1.83 in)
Packaged Dimensions	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)
Weight	70 g (0.15 lb)	70 g (0.15 lb)	70 g (0.15 lb)	70 g (0.15 lb)	70 g (0.15 lb)
Cord Length	1530±100 mm (60.24±3.94 in)	1530±100 mm (60.24±3.94 in)	1530±100 mm (60.24±3.94 in)	1530±100 mm (60.24±3.94 in)	1530±100 mm (60.24±3.94 in)
Environmental Limits					
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)
Regulatory Approvals					
Safety	CE/FCC/UL/GS/PSE/RCM/ CCC	CE/FCC/UL/GS/PSE/RCM/ CCC	CE/FCC/UL/GS/PSE/RCM/ CCC	CE/FCC/UL/GS/PSE/RCM/ CCC	CE/FCC/UL/GS/PSE/RCM/ CCC
Compatibility					
Related Products	NPort 5110A, NPort 5130A, NPort 5150A, NPort 5210A, NPort 5230A, NPort 5250A, NPort W2150A/W2250A, NPort P5110A				

DC Power Cord

Locking barrel plug to bare wires



Model Name	Cable Length
CBL-PJ21NOPEN-BK-30	300±20 mm (11.81±0.79 in)

AC Power Supplies

Locking barrel plugs, 12 VDC, 3 A, 100 to 240 VAC (switch mode)



Model Name	PWR-12300-WPUSJP-S1	PWR-12300-WPEU-S1	PWR-12300-WPUK-S1	PWR-12300-WPAU-S1	PWR-12300-WPCN-S1
Input Rating					
Input Power	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Input Plug					
Plug Type	US/J	EU	UK	AU	CN
Output Rating					
Output Power	3 A @ 12 VDC	3 A @ 12 VDC	3 A @ 12 VDC	3 A @ 12 VDC	3 A @ 12 VDC
Output Plug					
Connector Type	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5	S-Type 5.5/2.1/7.5
Outer Diameter	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)
Inner Diameter	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)
Physical Characteristics					
Dimensions	74 x 43.5 x 52.3 mm (2.91 x 1.71 x 2.06 in)	74 x 43.5 x 73.5 mm (2.91 x 1.71 x 2.89 in)	74 x 43.5 x 61 mm (2.91 x 1.71 x 2.40 in)	74 x 43.5 x 63.3 mm (2.91 x 1.71 x 2.49 in)	74 x 43.5 x 51.3 mm (2.91 x 1.71 x 2.02 in)
Packaged Dimensions	100 x 60 x 90 mm (3.94 x 2.36 x 3.54 in)	100 x 60 x 90 mm (3.94 x 2.36 x 3.54 in)	100 x 60 x 90 mm (3.94 x 2.36 x 3.54 in)	100 x 60 x 90 mm (3.94 x 2.36 x 3.54 in)	100 x 60 x 90 mm (3.94 x 2.36 x 3.54 in)
Weight	163 g (0.36 lb)	163 g (0.36 lb)	163 g (0.36 lb)	163 g (0.36 lb)	163 g (0.36 lb)
Cord Length	1530±200 mm (60.24±7.87 in)	1530±200 mm (60.24±7.87 in)	1530±200 mm (60.24±7.87 in)	1530±200 mm (60.24±7.87 in)	1530±200 mm (60.24±7.87 in)
Environmental Limits					
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)	-20 to 70°C (-4 to 158°F)
Regulatory Approvals					
Safety	FCC/CE/UL/GS/CCC/RCM/ PSE	FCC/CE/UL/GS/CCC/RCM/ PSE	FCC/CE/UL/GS/CCC/RCM/ PSE	FCC/CE/UL/GS/CCC/RCM/ PSE	FCC/CE/UL/GS/CCC/RCM/ PSE
Compatibility					
Related Products	UPort 204, UPort 207, UPort 404, UPort 407				

DC Power Cord

Locking barrel plug to bare wires



Model Name	Cable Length
CBL-PJ21NOPEN-BK-30	300±20 mm (11.81±0.79 in)

AC Power Supplies

Non-locking barrel plugs, 12 VDC, 0.5 A, 100 to 240 VAC (switch mode)



Model Name	PWR-12050-WPUSJP-S2	PWR-12050-WPEU-S2	PWR-12050-WPUK-S2	PWR-12050-WPAU-S2	PWR-12050-WPCN-S2
Input Rating					
Input Power	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Input Plug					
Plug Type	US/JP	EU	UK	AU	CN
Output Rating					
Output Power	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC	0.5 A @ 12 VDC
Output Plug					
Connector Type	L-Type 5.5/2.1/9.0	L-Type 5.5/2.1/9.0	L-Type 5.5/2.1/9.0	L-Type 5.5/2.1/9.0	L-Type 5.5/2.1/9.0
Outer Diameter	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)
Inner Diameter	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)
Physical Characteristics					
Dimensions	64 x 40.5 x 30 mm (2.52 x 1.59 x 1.18 in)	64 x 40.5 x 68.7 mm (2.52 x 1.59 x 2.71 in)	64 x 40.5 x 56.2 mm (2.52 x 1.59 x 2.21 in)	64 x 40.5 x 58.5 mm (2.52 x 1.59 x 2.30 in)	64 x 40.5 x 46.5 mm (2.52 x 1.59 x 1.83 in)
Packaged Dimensions	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)	83 x 50 x 70 mm (3.27 x 1.97 x 2.76 in)
Weight	70 g (0.15 lb)	70 g (0.15 lb)	70 g (0.15 lb)	70 g (0.15 lb)	70 g (0.15 lb)
Cord Length	1830±100 mm (72.05±3.94 in)	1830±100 mm (72.05±3.94 in)	1830±100 mm (72.05±3.94 in)	1830±100 mm (72.05±3.94 in)	1830±100 mm (72.05±3.94 in)
Environmental Limits					
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Storage Temperature	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)	-10 to 70°C (14 to 158°F)
Regulatory Approvals					
Safety	CE/FCC/UL/RMC/PSE/ CCC	CE/FCC/UL/RMC/PSE/ CCC	CE/FCC/UL/RMC/PSE/ CCC	CE/FCC/UL/RMC/PSE/ CCC	CE/FCC/UL/RMC/PSE/ CCC
Compatibility					
Related Products	NPort 5110, NPort 5130, NPort 5150, NPort 5210, NPort 5230, NPort 5232, NPort 5232I, MGate MB3180, MGate MB3280, DE-211, DE-311, A52, A53, MiiNePort E1-ST				

DC Power Cord

Non-locking barrel plug to bare wires



Model Name	Cable Length
CBL-PJTB-10	100±20 mm (3.94±0.79 in)

Wide Temperature AC Power Supplies

Locking barrel plug, 12 VDC, 1.5 A, 100 to 240 VAC (switch mode)



Model Name	PWR-12150-USJP-SA-T	PWR-12150-EU-SA-T	PWR-12150-UK-SA-T	PWR-12150-AU-SA-T	PWR-12150-CN-SA-T
Input Rating					
Input Power	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Input Plug					
Plug Type	US/JP	EU	UK	AU	CN
Output Rating					
Output Power	1.5 A @ 12 VDC	1.5 A @ 12 VDC	1.5 A @ 12 VDC	1.5 A @ 12 VDC	1.5 A @ 12 VDC
Protection Requirements					
Protection	Over-current protection, over-voltage protection				
Output Plug					
Connector Type	L-Type 5.5/2.1/7.5	L-Type 5.5/2.1/7.5	L-Type 5.5/2.1/7.5	L-Type 5.5/2.1/7.5	L-Type 5.5/2.1/7.5
Outer Diameter	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)	5.5±0.1 mm (0.22±0.004 in)
Inner Diameter	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)	2.1±0.1 mm (0.08±0.004 in)
Physical Characteristics					
Dimensions	32 x 70.3 x 88 mm (1.26 x 2.77 x 3.46 in)	32 x 85.3 x 88 mm (1.26 x 3.36 x 3.46 in)	50 x 91 x 82.5 mm (1.97 x 3.58 x 3.25 in)	41 x 73.9 x 89.5 mm (1.61 x 2.91 x 3.52 in)	32 x 60 x 88 mm (1.26 x 2.36 x 3.46 in)
Weight	200 g (0.44 lb)	200 g (0.44 lb)	200 g (0.44 lb)	200 g (0.44 lb)	200 g (0.44 lb)
Cord Length	1500±200 mm (59.06±7.87 in)	1500±200 mm (59.06±7.87 in)	1500±200 mm (59.06±7.87 in)	1500±200 mm (59.06±7.87 in)	1500±200 mm (59.06±7.87 in)
Environmental Limits					
Operating Temperature	-40 to 75°C (-40 to 167°F)	-40 to 75°C (-40 to 167°F)	-40 to 75°C (-40 to 167°F)	-40 to 75°C (-40 to 167°F)	-40 to 75°C (-40 to 167°F)
Regulatory Approvals					
Safety	FCC/UL/PSE	TUV/CE/GS	CE	RCM	CCC
Compatibility					
Related Products	NPort 5110-T, NPort 5450-T, NPort 5450I-T, NPort 5110A-T, NPort 5610-8-DTL-T, NPort 5650-8-DTL-T, NPort 5650I-8-DTL-T, NPort 5130A-T, NPort 5150A-T, NPort 5210A-T, NPort 5230A-T, NPort 5250A-T, NPort 6100-T, NPort 6200-T, NPort 6400-T				