1-800-633-0405

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Power Supplies - Switching CPS ECO Series 1-Phase



Overview

LUTZE ECO series power supplies were developed with technical innovations in mind. The Compact economy series power supplies are efficiently sized and offer up to 91% power conversion efficiency. Adjustable voltage outputs and DC Ok contacts are standard.

Features

- Compact footprint
- Aluminum housing
- 35mm DIN rail mount
- IP20
- 5 year warranty



Power Supplies - Switching CPS ECO Series 1-Phase Selection Chart								
Part Number	Price	Output Voltage	Output Current	Output Power	Input Voltage	Power Boost	Dimensions (W x H x D)	Drawing Link
<u>CPSB1-120-24E</u>	\$97.00	5A 24VDC 10A	120W	400/040 \/40	140% for 5s	40 x 115 x 110mm [1.57 x 4.52 x 4.33 in]	<u>PDF</u>	
<u>CPSB1-240-24E</u>	\$150.00		10A	240W	120/240 VAC	120/240 VAC	135% for 30s	63 x 140 x 139mm [2.48 x 5.51 x 5.47 in]
<u>CPSB1-480-24E</u> *	\$275.00		20A	480W	200/240 VAC	140% for 5s	73 x 140 x 149mm [2.87 x 5.51 x 5.86 in]	<u>PDF</u>

* Requires an external fuse.

Power Supplies - Switching CPS ECO Series 1-Phase Input Specifications						
Part Number	<u>CPSB1-120-24E</u>	<u>CPSB1-240-24E</u>	<u>CPSB1-480-24E</u>			
Operation Voltage Range	85–264 VAC 90–132 VAC 110–345 VDC 187–264 VAC 270–345 VDC 270–345 VDC		187–264 VAC 250–375 VDC			
Frequency Range	47-63Hz					
Rated Current	2.1 A @ 120VAC 1.2 A @ 240VAC	4A @ 120VAC 2A @ 240VAC	2.9 A @ 200VAC 2.5 A @ 240 VAC			
Inrush Current	≤ 30A / 0.72 A²s	< 40A	≤ 29A / 0.61 A²s			
Power Factor Correction	> 0.6	> 0.6	> 0.90 enabled			
Recommended Circuit Breaker	C-curve 6A	C-curve 10A	C-curve 6A or D-curve 4A			

Power Supplies - Switching CPS ECO Series 1-Phase Output Specifications							
Part Number	<u>CPSB1-120-24E</u>	<u>CPSB1-240-24E</u>	<u>CPSB1-480-24E</u>				
Overload Limit In Constant Current Mode	-	-	50A				
Max. Output Current	7A, 5s 13.5 A, 30s		28A 5s @ Hiccup mode				
Power Dissipation	< 18W	< 35W	< 48W				
Setting Range	23-28 VDC	23-27.5 VDC	23-28 VDC				
Load Regulation	< 1%	< 1%	≤ 1%				
Ripple And Noise	60mV	< 100mV pp	≤ 50mV rms				
Hold-Up Time	> 20ms @ 120VAC > 60ms @ 120VAC 50ms @ 230VAC 70ms @ 230VAC		≥ 50ms @ 230VAC				
Parallel / Redundant Mode	Yes via external decoupling diode						
Efficiency (Typical)	> 87% @ 120VAC	> 87% @ 120VAC	> 91% @ 240VAC				
Short-Circuit	Hiccup mode						
МТВҒ	_	-	500,000 h @ 25°C ambient full load				





Power Supplies - Switching CPS Series

Power Supplies - Switching CPS 3-Phase Series General Specifications						
Series	ECO Series 1-Phase	Ultra Series 1-Phase	Universal Series - 1/2/3 Phase	3-Phase Series		
Overvoltage Protection		<u>CPSB3-120-24</u> <32V <u>CPSB3-240-24</u> <32V <u>CPSB3-960-24</u> <33VDC				
Overtemperature Protection	Yes					
Status Indicators	DC ON LED (gr DC LOW LED (<u>CPSB-123-240-24</u> DC ON LED (green): ≥ 21.6 V DC LOW LED (red): ≥ 21.6 V <u>CPSB-123-480-24</u> DC ON LED (green): ≥ 21.6 V DC LOW LED (red): I _{out} >1.11 _n	$\frac{CPSB3-120-24}{CPSB3-240-24}$ DC OK LED (green) ON U _{out} >95% U _{set} OFF U _{out} >90% U _{se} $\frac{CPSB3-960-24}{DC ON LED (green): \ge 21.6 V$ DC LOW LED (red): $\ge 21.6 V$		
Humidity	5 to 95%, non-condensing					
Vibration	IEC 60068-2-6					
Shock	IEC 60068-2-27					
Protection Rating	IP20					
Mounting	35mm DIN rail (vertical)					
Housing Material	Aluminum (enclosed)					
Agency Approval	CE, UKCA, cULus E249179					

			Additional	Data						
Part Number	Weight kg [lb]	Operating Temperature	Storage Temperature	Terminal Type	Solid Wire Size*		Tightoning Torque			
					Output	Input	Tightening Torque			
CPSB1-120-24E	0.45 [0.99]			Screw	0.20 – 2.5 mm² [AWG 24-14]	0.20 – 2.5 mm² [AWG 24-14]	0.5 – 0.6 N•m [4.42 – 5.30 lb•ft]			
<u>CPSB1-240-24E</u>	0.75 [1.65]	-40 to 70°C [-40 to 158°F]								
<u>CPSB1-480-24E</u>	1 [2.20]									
<u>CPS2B1-120-24</u>	0.45 [0.99]	-35 to 70°C [-31 to 158°F] -40 to 70°C	-40 to 80°C	_	0.20 – 2.5 mm ²	0.20 – 2.5 mm²	0.5 – 0.6 N•m			
CPS2B1-240-24	0.75 [1.65]		[-40 to 176°F]	Screw	[AWG 24-14]	[AWG 24-14]	[4.42 – 5.30 lb•ft]			
CPS2B1-480-24	1.1 [2.42]	[-40 to 158°F]								
<u>CPSB-123-240-24</u>	0.65 [1.43]	-40 to 70°C	-40 to 70°C	-40 to 70°C -40 to	-40 to 70°C -40 to 80°C	-40 to 70°C -40 to 80°C	Carrow	0.20 – 2.5 mm² [AWG 30-12]	0.20 – 2.5 mm² [AWG 30-12]	0.5 – 0.6 N•m
<u>CPSB-123-480-24</u>	1 [2.20]	[-40 to 158°F]	[-40 to 176°F]	Screw	0.20 – 2.5 mm² [AWG 24-14]	0.20 – 2.5 mm² [AWG 24-14]	[4.42 – 5.30 lb•ft]			
CPSB3-120-24	0.66 [1.45]	-25 to 70°C	-40 to 85°C	Duch in	0.20 – 2.5 mm ²	0.20 – 2.5 mm ²	-			
CPSB3-240-24	0.78 [1.71]	[-13 to 158°F]	[-40 to 185°F]	Push-in	0.20 – 2.5 mm ²	0.20 – 2.5 mm²	_			
<u>CPSB3-960-24</u>	1.3 [2.86]	-40 to 70°C [-40 to 158°F]	-40 to 80°C [-40 to 176°F]	Screw	0.20 – 10mm² [AWG 24-14]	0.20 – 10mm² [AWG 24-14]	max. 62 N•m			

* For other types of wire please see the insert.