

Switching Power Supplies 3-Phase CPS Universal Series



Overview

LUTZE 3-phase Compact power supply series are reliable 24VDC and equipped with an efficiency rating of over 91%, resulting in low power loss and low heat dissipation. The integrated power boost function allows for higher peak loads to be energized for a short period of time. An advantage of the remote on/off function is the convenience to remotely switch the unit on and off, therefore significantly reducing energy consumption. Additionally, status indication via a status output relay allows for remote monitoring.

Features

- Aluminum housing
- 35mm DIN rail mount
- IP20 rated
- 5 year warranty
- Superior power output to size ratio



CPSB3-120-24

Switching Power Supplies 3-Phase										
Part Number	Price	Output Voltage	Output Current	Output Power	Input Voltage	Power Boost	Remote On/Off Function	Dimensions (W x H x D)	Drawing Link	
CPSB3-120-24	\$06219:		5A	120W	350-575 VAC		Yes	55 x 129 x 133mm	PDF	
CPSB3-240-24	\$0621a:	24VDC	10A	240W	N		150% for 5s	165	[2.16 x 5.07 x 5.23 in]	PDF
<u>CPSB3-960-24</u> *	\$06216:	2	40A	960W			No	80 x 127 x 137.5 mm [3.14 x 5 x 5.41 in]	<u>PDF</u>	

* Requires an external fuse.

3-Phase Input Specifications						
Part Number	<u>CPSB3-120-24</u>	<u>CPSB3-240-24</u>	<u>CPSB3-960-24</u>			
Operation Voltage Range	350–575 VAC	350–575 VAC	340–550 VAC 520–725 VDC			
Frequency Range	47-63Hz					
Rated Current	0.35 A @ 400VAC 0.3 A @ 500VAC	0.59 A @ 400VAC 0.50 A @ 500VAC	2.4 A @ 400VAC 2.1 A @ 500VAC			
Inrush Current	30A @ 400VAC 39A @ 500VAC	36A @ 400VAC 40A @ 500VAC	≤50A / 1.86 A²s			
Power Factor Correction	> 0.5	> 0.6	> 0.7			
Recommended Circuit Breaker	(3) B-curve 6A	(3) B-curve 6A	(3) C-curve10A			

3-Phase Output Specifications						
Part Number	<u>CPSB3-120-24</u>	<u>CPSB3-240-24</u>	<u>CPSB3-960-24</u>			
Maufanana Quatavat Quamant	7.5 A	15A	44A			
Maximum Output Current	6A (Hiccup 2s)	12A (Hiccup 2s)	60A (Hiccup, 5s)			
Power Dissipation	< 11.5 W, < 2.1 W (stand-by)	< 18W, < 2.0 W (stand-by)	< 78W			
Setting Range	22.5-29 VDC	22.5-29 VDC	23-28 VDC			
Load Regulation	max. 0.4% 350-550 VAC max. 2.9% parallel mode	max. 0.6% 350-550 VAC max. 3.1% parallel mode	<1%			
Ripple And Noise	< 30mV pp	< 40mV pp	< 150mV pp			
Hold-Up Time	> 23ms @ 400VAC > 43ms @ 500VAC	> 22ms @ 400VAC > 44ms @ 500VAC	> 15ms			
Parallel / Redundant Mode	Yes, via external (max 3	Yes, via external decoupling diode (max 2 devices)				
Efficiency (Typical)	91.3 % @ 400VAC 91.2 % @ 500VAC	93.1 % @ 400VAC 93.2 % @ 500VAC	> 92.5 % @ 400VAC			
Short-Circuit	Hiccup, Cu	Adjustable, Hiccup, Current Limiting				
МТВҒ	184,000h @ 400VAC 162,000h @ 500VAC	184,000h @ 400VAC 162,000h @ 500VAC	500,000h			

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Power Supplies





Power Supplies - Switching CPS 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 (reen): ≥ 21.6 V (red): ≤ 21.6 V	<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} >1.1I _n	CPSB3-120-24 CPSB3-240-24 DC OK LED (green) ON U _{out} >95% U _{set} OFF U _{out} >90% U _{se} CPSB3-960-24 DC ON LED (green): ≥ 21.6 V DC LOW LED (red): ≥ 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*		Tinhtoning Torque		
					Output	Input	Tightening Torque		
CPSB1-120-24E	0.45 [0.99]		-40 to 80°C [-40 to 176°F]	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]							
CPSB1-480-24E	1 [2.20]								
<u>CPS2B1-120-24</u>	0.45 [0.99]	-35 to 70°C [-31 to 158°F]	-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 70°C	[-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		Scrow	0.20 – 2.5 mm ² [AWG 30-12]	0.20 – 2.5 mm ² [AWG 30-12]	0.5 – 0.6 N•m [4.42 – 5.30 lb•ft]		
<u>CPSB-123-480-24</u>	1 [2.20]	[-40 to 158°F]			0.20 – 2.5 mm² [AWG 24-14]	0.20 – 2.5 mm² [AWG 24-14]			
CPSB3-120-24	0.66 [1.45]	-25 to 70°C	-25 to 70°C	-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.