

Linear power supplies

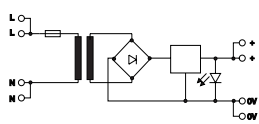
CP-L range

Ordering details



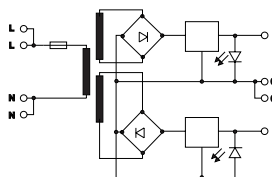
1SVR 419 500 F 3000

CP-L



1SVC 110 000 F 0315

5 V DC, 12 V DC,
15 V DC, 24 V DC



1SVC 110 000 F 0316

±12 V DC stabilized
±15 V DC stabilized

Compact linear power supplies providing many advantages:

- Universal combination base for snap-on mounting to all common DIN/EN rails (acc. to EN 50022 and EN 50035)
- All power supplies are available for supply voltage 115 V or 230 V AC
- All power supplies provide stabilized (regulated) DC output voltage with low residual ripple of ±1%
- Double connection terminals on the supply and the output side allow easy potential distribution by line looping
- The output is short-circuit and overload proof
- LED for status indication
- approved

Type	Supply voltage	Output voltage	Order code	Pack. ¹⁾ pcs.	Price 1 piece	Weight 1 pc. kg/lb
CP-L5/1.0	115 V AC	5 V DC / 1 A	1SVR 419 500 R 3000	1		0.82/1.80
	230 V AC	5 V DC / 1 A	1SVR 419 500 R 3100	1		0.82/1.80

CP-L12/0.5	115 V AC	12 V DC / 0.5 A	1SVR 419 501 R 1000	1		0.82/1.80
	230 V AC	12 V DC / 0.5 A	1SVR 419 501 R 1100	1		0.82/1.80

CP-L12/1.0	115 V AC	12 V DC / 1 A	1SVR 419 501 R 3000	1		0.78/1.72
	230 V AC	12 V DC / 1 A	1SVR 419 501 R 3100	1		0.78/1.72

CP-L15/0.5	115 V AC	15 V DC / 0.5 A	1SVR 419 502 R 1000	1		0.82/1.80
	230 V AC	15 V DC / 0.5 A	1SVR 419 502 R 1100	1		0.82/1.80

CP-L15/1.0	115 V AC	15 V DC / 1 A	1SVR 419 502 R 3000	1		0.78/1.72
	230 V AC	15 V DC / 1 A	1SVR 419 502 R 3100	1		0.78/1.72

CP-L24/0.25	115 V AC	24 V DC / 0.25 A	1SVR 419 503 R 0000	1		0.82/1.80
	230 V AC	24 V DC / 0.25 A	1SVR 419 503 R 0100	1		0.82/1.80

CP-L24/0.75	115 V AC	24 V DC / 0.75 A	1SVR 419 503 R 2000	1		1.05/2.31
	230 V AC	24 V DC / 0.75 A	1SVR 419 503 R 2100	1		1.05/2.31

Type	Supply voltage	Output voltage	Order code	Pack. ¹⁾ pcs.	Price 1 piece	Weight 1 pc. kg/lb
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CP-L±12/0.5	115 V AC	±12 V DC / 0.5 A	1SVR 419 511 R 1000	1		1.07/2.35
	230 V AC	±12 V DC / 0.5 A	1SVR 419 511 R 1100	1		1.07/2.35

CP-L±15/0.5	115 V AC	±15 V DC / 0.5 A	1SVR 419 512 R 1000	1		1.07/2.35
	230 V AC	±15 V DC / 0.5 A	1SVR 419 512 R 1100	1		1.07/2.35

¹⁾ Pack. unit

Linear power supplies

CP-L range

Technical data

115 V AC supply		CP-L5/1.0	CP-L12/0.5 CP-L12/1.0	CP-L15/0.5 CP-L15/1.0	CP-L24/0.25 CP-L24/0.75	CP-L± 12/0.5 CP-L± 15/0.5
Order code	1 SVR 419 ...	500 R 3000	501 R 1000 501 R 3000	502 R 1000 502 R 3000	503 R 0000 503 R 2000	511 R 1000 512 R 1000
Input						
Supply voltage		103-127 V AC				
Frequency, AC input		47-63 Hz				
Supply voltage fail. bridging time at 100 % load		5 ms min.				
Input current at nom. load	typ. at 0.25 A typ. at 0,5 A typ. at 0.75 A typ. at 1 A	- - - 0.16 A	- 0.14 A - 0.32 A	- 0.14 A - 0.35 A	0.14 A - 0.35 A -	- 0.32 A / 0.35 A - -
Internal input fuse	typ. at 0,25 A typ. at 0.5 A typ. at 0.75 A typ. at 1 A	- - - 0.2 A	- 0.2 A (slow-act.) - 0.4 A (slow-act.)	- 0.2 A (slow-act.) - 0.4 A (slow-act.)	0.2 A (slow-act.) - 0.4 A (slow-act.) -	- 0.4 A (slow-act.) - -
Output						
Output voltage		5 V DC	12 V DC	15 V DC	24 V DC	± 12 V DC / ± 15 V DC
Output current		1 A	0.5 A / 1 A	0.5 A / 1 A	0.25 A / 0.75 A	0.5 A
Residual ripple		± 1 %				
Short-circuit protection		overcurrent switch-off with automatic restart				
Overload protection		overtemperature and overcurrent switch-off				
Reset after thermal overload switch-off		automatic reset after cooling				
Standards						
Electrical safety		EN 50178 (VDE 0160)				
Galvanic isolation		safe isolation acc. to EN 60950				
Isolation testing		type test 4 kV AC, routine test 4 kV AC				
Clearances and creepage distances		overvoltage category 3, degree of pollution 2				
Electromagnetic compatibility acc. to EN 61000-6-2	ESD HF radiation Burst Surge conducted HF, input			EN 61000-4-2 EN 61000-4-3 level 3 EN 61000-4-4 level 3 EN 61000-4-5 EN 61000-4-6	6/8 kV 10 V/m 2 kV 2 kV 10 V	
Input current harmonics		no limitation				
Degree of protection, terminals		IP20				
Degree of protection, enclosure		IP20				
Protection class		2, if the unit is covered additionally				
General data						
Operational state indication		green LED				
Operating temperature		-20 °C - +50 °C				
Storage temperature		-40 °C - +80 °C				
Wire size		screw terminals 2.5 mm ² (AWG 14)				
Weight	approx.	0.82 kg*	0.82 kg/0.78 kg*	0.82 kg/0.78 kg*	0.82 kg/1.05 kg*	1.07 kg*
Dimensions (W x H x D) in mm	at 0.25 A	-	-	-	100 x 104 x 79 (3.94x4.09x3.11")	-
	at 0.5 A	-	100 x 104 x 79 (3.94x4.09x3.11")		-	135 x 104 x 90 (5.31x4.09x3.54")
	at 0.75 A	-	-	-	135 x 104 x 90 (5.31x4.09x3.54")	-
	at 1 A	100 x 104 x 90 (3.94x4.09x3.54")			-	-
Mounting note		Normal mounting position: Horizontally, mounted on DIN rail. Clearances to other devices: 20 mm on both sides, top 100 mm, bottom 50 mm.				

* 0.78 kg = 1.72 lb
0.82 kg = 1.80 lb
1.05 kg = 2.31 lb
1.07 kg = 2.35 lb

Linear power supplies

CP-L range

Technical data

230 V AC supply		CP-L5/1.0	CP-L12/0.5 CP-L12/1.0	CP-L15/0.5 CP-L15/1.0	CP-L24/0.25 CP-L24/0.75	CP-L± 12/0.5 CP-L± 15/0.5
Order code	1 SVR 419 ...	500 R 3100	501 R 1100 501 R 3100	502 R 1100 502 R 3100	503 R 0100 503 R 2100	511 R 1100 512 R 1100
Input						
Supply voltage	207-253 V AC					
Frequency, AC input	47-63 Hz					
Supply voltage fail. bridging time at 100 % load	5 ms min.					
Input current at nom. load	typ. at 0.25 A	-	-	-	0.07 A	-
	typ. at 0.5 A	-	0.07 A	0.07 A	-	0.16 A / 0.175 A
	typ. at 0.75 A	-	-	-	0.175 A	-
	typ. at 1 A	0.08 A	0.16 A	0.175 A	-	-
Internal input fuse	at 0.25 A	-	-	-	0.125 A (slow-act.)	-
	at 0.5 A	-	0.125 A (slow-act.)	0.125 A (slow-act.)	-	0.2 A (slow-act.)
	at 0.75 A	-	-	-	0.2 A (slow-act.)	-
	at 1 A	0.125 A (slow-act.)	0.2 A (slow-act.)	0.2 A (slow-act.)	-	-
Output						
Output voltage	5 V DC		12 V DC	15 V DC	24 V DC	± 12 V DC / ± 15 V DC
Output current	1 A		0.5 A / 1 A	0.5 A / 1 A	0.25 A / 0.75 A	0.5 A
Residual ripple	± 1 %					
Short-circuit protection	overcurrent switch-off with automatic restart					
Overload protection	overtemperature and overcurrent switch-off					
Reset after thermal overload switch-off	automatic reset after cooling					
Standards						
Electrical safety	EN 50178 (VDE 0160)					
Galvanic isolation	safe isolation acc. to EN 60950					
Isolation testing	type test 4 kV AC, routine test 4 kV AC					
Clearances and creepage distances	overvoltage category 3, degree of pollution 2					
Electromagnetic compatibility acc. to EN 61000-6-2	ESD	EN 61000-4-2		6/8 kV		
	HF radiation	EN 61000-4-3 level 3		10 V/m		
	Burst	EN 61000-4-4 level 3		2 kV		
	Surge	EN 61000-4-5		2 kV		
	conducted HF, input	EN 61000-4-6		10 V		
Input current harmonics	no limitation					
Degree of protection, terminals	IP20					
Degree of protection, enclosure	IP20					
Protection class	2, if the unit is covered additionally					
General data						
Operational state indication	green LED					
Operating temperature	-20 °C - +50 °C					
Storage temperature	-40 °C - +80 °C					
Wire size	screw terminals 2.5 mm ² (AWG 14)					
Weight	approx.	0.82 kg*	0.82 kg/0.78 kg*	0.82 kg/0.78 kg*	0.82 kg/1.05 kg*	1.07 kg*
Dimensions (W x H x D) mm	at 0.25 A	-	-	-	100 x 104 x 79 (3.94x4.09x3.11")	-
	at 0.5 A	-	100 x 104 x 79 (3.94x4.09x3.11")		-	135 x 104 x 90 (5.31x4.09x3.54")
	at 0.75 A	-	-	-	135 x 104 x 90 (5.31x4.09x3.54")	-
	at 1 A	100 x 104 x 90 (3.94x4.09x3.54")			-	-
Mounting note	Normal mounting position: Horizontally, mounted on DIN rail. Clearances to other devices: 20 mm on both sides, 100 mm on top, 50 mm on bottom.					

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 1.07 kg = 2.35 lb