



FLEX Series - DIN Mounted Power Supplies



The new, compact FLEX series of power supplies features 1, 2, and 3-phase input up to 600W with current rating ranging from 2A to 25A and a 'Power Boost' function allowing to the power supply to reach 150% of the rated current for up to 3 minutes.

The FLEX series offers three types of short-circuit protection (Hiccup Mode, Manual Reset and Continuous Output Mode).

Features and Specifications:

- Compact (4 models in this catalog are 55x110x105mm WxHxD)
- Aluminum enclosure with DIN rail mounting clip
- Ingress Protection: IP20
- Power Boost function: 150% load for up to 3 minutes
- 3 selectable types of short-circuit reset functions:
 - Hiccup mode (auto interrupt and restart)
 - Manual reset
 - Continuous output mode
- Input Voltage: Single phase 115-230Vac, 2 phase 230-500 Vac, 3 phase 400-500Vac
- Output Voltage: 24 Vdc
- Output Current:
 - o 1 phase: 2 2.5 5 7.5 9 -14.5 -25A
 - o 2 phase: 5 7.5 14.5A
 - o 3 phase: 25A
- Operating Temperature: -25 to 70°C
- Approvals: cULus (file #E308682)





Single Phase Power Supplies (Order by Part No.)

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Part No	AD-FLEX6024A	AD-FLEX9024A	AD-FLEX17024A	AD-FLEX28024A	AD-FLEX50024A		
Output	24Vdc 40-70W	24Vdc 95-120W	24Vdc 120-180W	24Vdc 240-330W	24Vdc 480-600W		
Phases	1	1	1	1	1		
Input Data							
Nominal Input Voltage Vn	115-230 Vac	115-230 Vac ¹	115-230 Vac ¹	115-230 Vac ¹	115-230 Vac ¹		
Input Voltage Range	90-264 Vac	90-135 Vac 180-264 Vac	90-135 Vac 180-264 Vac	90-135 Vac 180-264 Vac	90-135 Vac 180-264 Vac		
Input Current	1.0-0.7A	1.8-0.9A	2.8-1.3A	3.3-2.2A	8.5-4.2A		
Internal Fuse	4A	4A	4A	6.3A	10A		
External Fuse (recommended)	6A	10A	10A	16A	16A		
Output Data							
Output Voltage Factory Setting <u>+</u> 3% Vn	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc		
Adjustment range	22-27 Vdc	22-27 Vdc	22-27 Vdc	22-27 Vdc	22-27 Vdc		
Continuous Current at Vn < 40°C (In)	2.0A (115) 3.0 A (230)	5A	7.5A	14A	25A		
Continuous Current at Vn < 50°C (In)	1.5A (115) 2.5 A (230)	4.5A	6.0A	12A	22A		
Continuous Current at Vn < 60°C (In)	-	4.0A	5.0A	10A	20A		
Power Boost Current (at Vn 60°C > 3min.)	3.5A	5.0A	7.5A	14A	25A		
Over Temperature Protection	Shut down output and automatically restart						
General Data							
Derating T ^a >(In)	>50C° 2.5% °	>60C° 2.5% °	>60C° 2.5% °	>60C° 2.5% °	>60C° 2.5% °		
Connection Terminal Blocks (Screw Type)	2.5 mm	2.5 mm	2.5 mm	2.5 mm	4 mm		
Dimensions (w-h-d) mm	50x120x50	55x110x105	55x110x105	72x115x135	85x120x140		
Weight	0.3 kg approx.	0.56 kg approx.	0.6 kg approx.	0.85 kg approx.	1.2 kg approx.		
Approvals ²	C UL US	C UL US	C UL US	C UL US	CULUS		

Information subject to change without notice 1 - Selectable 2 - UL508





Two and Three Phase Power Supplies (Order by Part No.)

Approvals ²	c(ՈՐ) ns	c (UL) us	c UL us	c(ŪL)∪s		
Weight	0.56 kg approx.	0.6 kg approx.	0.85 kg approx.	1.2 kg approx.		
Dimensions (w-h-d) mm	55x110x105	55x110x105	72x115x135	85x120x140		
Connection Terminal Blocks (Screw Type)	2.5 mm	2.5 mm	2.5 mm	4 mm		
Derating T ^a >(In)	>60C° 2.5% °	>60C° 2.5% °	>60C° 2.5% °	>60C° 2.5% °		
General Data						
Over Temperature Protection	Shut down output and automatically restart					
Power Boost Current (at Vn 60°C <u>></u> 3min.)	5A	7.5A	14A	25A		
Continuous Current at Vn < 60°C (In)	4A	5.0A	10A	20A		
Continuous Current at Vn < 50°C (In)	4.5A	6.0A	12A	22A		
Continuous Current at Vn < 40°C (In)	5A	7.5A	14A	25A		
Adjustment range	22-27 Vdc	22-27 Vdc	22-27 Vdc	22-27 Vdc		
Output Voltage Factory Setting <u>+</u> 3% Vn	24 Vdc	24 Vdc	24 Vdc	24 Vdc		
Output Data						
External Fuse (recommended)	10A	10A	16A	16A		
Internal Fuse	4A	4A	4A	6.3A		
Input Current	1.0-0.5-0.4A	1.5-0.8-0.7A	202-1.4-1.0A	1.7A		
	330-550 Vac	330-550 Vac	330-550 Vac			
Input Voltage Range	187-264 Vac	187-264 Vac	187-264 Vac	330-550 Vac		
Nominal Input Voltage Vn	230-400-500 Vac ¹	230-400-500 Vac ¹	230-400-500 Vac ¹	400-500 Vac		
Input Data	_	_	_	-		
Phases	2	2	2	3		
Part No Output	AD-FLEX9024B 24Vdc 95-120W	AD-FLEX17024B 24Vdc 120-180W	24Vdc 240-330W	24Vdc 480-600W		
Part No	AD ELEVOOR AD	AD EL EVA 702 AD	AD-FLEX28024B	AD-FLEX50024B		

Environment and General Data

Climatic Data	
Ambient Temperature (Operation)	-25 to 70°C
Ambient Temperature (Storage)	-40 to 85°C
Humidity at 25°C	95%
General Data	
Isolation Voltage (IN/OUT)	3000 Vac
Isolation Voltage (Input/Ground)	1605 Vac
Isolation Voltage (Output/Ground)	500 Vac
Reliability (MTBF IEC 61709)	>500,000 h
Pollution Degree	2

Information subject to change without notice





DC-UPS Power Continuity Solutions

ADEL System's DC-UPS series provides a compact, 'All-in-one'" solution to your power management needs. These combine several functions into a compact Unit: power supply, power backup (UPS), battery charger and battery care module.

DC-UPS devices automatically distributes power between load and battery. If the system is disconnected from the main power source, the battery will supply power until the battery voltage reaches the minimum recommended voltage per cell, depending on the battery type. This prevents lead-acid batteries from reaching a sulfated state, or deep discharge for other battery types, while ensuring power to the load for as long as possible.

DC-UPS devices automatically detect the battery's condition and choose the appropriate charging mode. The diagnostics system will continuously monitor the charging progress and indicate faults using the LED light or the status contacts.

Features and Specifications:

- Power supply, back-up (UPS), battery charger and battery care modules in one compact device
- Three charging modes (recovery, boost and float/trickle) and adjustable charging current
- Output: 12VDC, 24VDC and 48VDC
- Power Boost: 2x Nominal Current for 4 minutes and 3x Nominal Current for 4 seconds
- Suitable for most common battery types
 - Lead-acid: VRLA, AGM, Gel
 - Ni-Cd
 - Li-Ion, Lithium polymer
- High charging current: charge up to 200 Ah batteries
- Battery and fault diagnostics /output protection: disconnection, polarity, short circuit, overload, battery sulfation / deep discharge
 - Included LED indicator
 - Contacts for external signal (remote monitoring)
- Input: 90-305VAC
- Material (housing): AluminumIngress Protection: IP20
- Mounting: DIN Rail
- Approvals: cURus (UL 60950-1); #E353188



Please see our catalog EC-2111 DC-UPS Power Continuity Solutions for more details.

■ Tel: 416-663-7223