

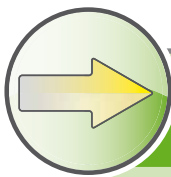
COMPACT

3-PHASE POWER SUPPLY – COMPATIBLE PROGRAM

EVOLUTION AND EVOLUTION+ 3 PHASE

NOW AVAILABLE WITH 48 VDC OUTPUT VOLTAGE

Evolution power supplies from Murrelektronik are compact, powerful and efficient. Our experience shows that Evolution is extremely reliable in a large number of applications. The Evolution+ model is based on Murrelektronik's well-known Evolution series and it provides even more system availability.



ATTRACTIVE ATTRIBUTES

- Consistent product range
- Models with and without protective varnish
- Output voltage 12 VDC, 24 VDC, 48 VDC
- Alarm contact
- Continuous 2-phase operation
- UL approved
- GL approved
- Interference emission Class B

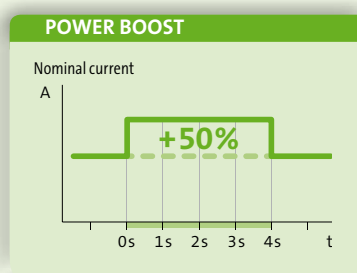


CONTINUOUS 2-PHASE OPERATION

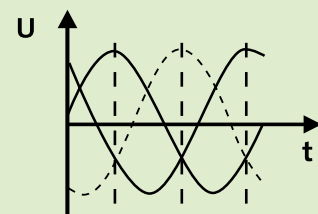
The Evolution power supply units continuously run a 2-phase operation so they are always prepared if one phase fails. And of course they are suitable for applications in fuse distribution cabinets that often work with only two phases.

MORE CAPACITY WITH POWER BOOST

Evolution power supplies provide 50% additional power for up to 4 seconds. This makes it possible to start up motors or handle high capacitive loads.



TWO-PHASE-OPERATION



Two-/three-phase operation, primary switched

- Power Boost for 4 seconds
- Current Limiter

Evolution/Evolution+

Current 5 A / 120 W



Evolution/Evolution+

Current 10 A / 240 W

Evolution/Evolution+

Current 20 A / 480 W

Evolution/Evolution+

Current 40 A / 960 W

Ordering data	Approval	Art. No.	Approval	Art. No.	Approval	Art. No.	Approval	Art. No.
Evolution: 24 V DC	cULus Listed	85000	cULus listed	85001	cULus Listed	85002	cULus Listed	85004
Evolution+: 24 V DC		185640		185641		185642		185644
Input								
Nominal voltage	3 x 324...572 V AC, 480...745 V DC							
Input current	3 x 0.3 A		3 x 0.8 A		3 x 1.3 A		3 x 2.4 A	
Inrush current after 1 ms	≤ 10 A		≤ 15 A		≤ 19 A		–	
Primary fusing	max. 3 x 10 A						max. 3 x 20 A	
Output								
Output voltage	24 V DC (SELV) ± 1%, 22...28 V adjustable							
Nominal output current	5 A (+55 °C); 3 A (+70 °C)		10 A (+55 °C); 6.5 A (+70 °C)		20 A (+55 °C); 15.8 A (+70 °C)		40 A (+55 °C); 30 A (+70 °C)	
Power Boost	7.5 A (≥ 4 sec.)		15 A (≥ 4 sec.)		30 A (≥ 4 sec.)		60 A (≥ 4 sec.)	
Efficiency	86 %		90 %				91 %	
Protection	short circuit and overload protected (current limiter)							
Parallel usage/serial usage	max. 5 units/max. 2 units							
General data								
Standards	EN 60950-1, EN 61204-3, EN 55022 B, EN 61000-3-2				EN 60950-1, EN 61204-3, EN 55022 B, EN 61000-3-2			
Temperature range	-25...+60 °C (storage temp. -40...+85 °C)		-25...+70 °C (storage temp. -40...+85 °C)					
Mounting method	DIN-rail mounting (TH 35) acc. to EN 60715							
Dimensions (H x B x T)	132 x 83 x 98 mm		132 x 93 x 114 mm		132 x 113 x 136 mm		132 x 164 x 142 mm	
Other ¹	signal contact with circuit board with protective varnish							

Two-/three-phase operation, primary switched

- Power Boost for 4 seconds
- Current Limiter

Evolution

Current 20 A / 240 W



Evolution+

Current 5 A / 240 W

Evolution+

Current 10 A / 480 W

Evolution+

Current 20 A / 960 W

Ordering data	Art. No.	Art. No.	Art. No.	Art. No.
12.5 V DC	85016	–	–	–
48 V DC	–	85009	85010	85011
Input				
Nominal voltage	3 x 324...572 V AC, 480...745 V DC			
Input voltage	3 x 1.3 A			
Inrush current after 1 ms	≤ 19 A		≤ 23 A	
Primary fusing	max. 3 x 10 A		3 x 20 A	
Output				
Output voltage	12.5 V DC (SELV), 11.5...13.5 V DC		48 V DC	
Nominal output current	20 A (+55 °C); 15.8 A (+70 °C)		5 A (+55 °C); 3.75 A (+70 °C)	
Power Boost	30 A (≥ 4 sec)		8 A (≥ 5 sec)	
Efficiency	90 %		91 %	
Protection	short circuit and overload protected (current limiter)			
Parallel usage/serial usage	max. 5 units/max. 2 units		max. 5 units/-	
General data				
Standards	EN 60950-1, EN 61204-3, EN 55022 B, EN 61000-3-2			
Temperature range	-25...+70 °C (storage temp. -40...+85 °C)			
Mounting method	DIN-rail mounting (TH35) acc. to EN 60715			
Dimensions (H x W x D)	132 x 93 x 114 mm		132 x 113 x 136 mm	
			132 x 164 x 142 mm	