

Evolution

Evolution means progress. Therefore it is a perfect name for the Murrelektronik three phase power supplies. Evolution is the result of consistent development of our proven power supply products. Evolution power supplies set new standards in power supply design by providing a compact, powerful, and efficient design for your use.

With a broad nominal input voltage range from 3 x 360 to 520V AC or 480 to 745V DC the Evolution power supplies are designed for worldwide use. And if one of the phases fail, the power supply will continue to function without any trouble with 2 phases only. An extra power function can supply up to 50 percent more power for a period of up to four seconds in order to power motors or to supply capacitive loads



SEMI
F47



Features:

- Nominal input voltage range from 360-520V AC or +/- 10% (320-572V AC)
- DC Voltage input 480-745
- Allows for continuous two-phase operation
- Extended temperature range from -25- +70°C (-13 - 158°F)
- Extra-power function allows 50% more power for 4 seconds
- Compact design, efficient cooling
- LED Indicators: Green = Normal Conditions
Red = Overload or Short Circuit
- Output power rated for 22-28V DC
- Convenient DIN rail mounting
- Parallel and Series connections possible
- Efficiency up to 91%
- Label plate at the power supply
- PFC - Power Factor Correction

MURRELEKTRONIK Related Products

Filters



MICO



MES



MB Diode



Modlink



EVOLUTION is...

- **COMPACT** - slim design for flexible applications combined with efficient cooling
- **POWERFUL** - 50 percent more power for 4 seconds in order to power up motors or to supply capacitive loads
- **EFFICIENT** - with broad input voltage range, extended temperature range and continuous two phase operations

Two/Three Phase Primary Switch Mode	Evolution Current 5A/120W	Evolution Current 10A/240W	Evolution Current 20A/480W	Evolution Current 40A/960W
				
Ordering Data	Art. No.	Art. No.	Art. No.	Art. No.
24V DC	85000	85001	85002	85004
Input				
Nominal Voltage	3 x 324-572V AC, 480-745V DC			
Input Current	3 x 0.3A	3 x 0.8A	3 x 1.3A	3 x 2.4A
Inrush Current After 1ms	≤10A	≤15A	≤19A	-
Primary Fusing	max. 3 x 10A			max. 3 x 20A
Output				
Output Voltage	24V DC (SELV) ± 1%, 22-28V adjustable		24V DC (SELV) ± 1%, 22-28V adjustable	
Nominal Output Current	5A (+55°C); 3A (+70°C)	10A (+55°C); 6.5A (+70°C)	20A (+55°C); 15.8A (+70°C)	40A (+55°C); 30A (+70°C)
Power Boost	7.5A (≥ 4sec.)	15A (≥ 4sec.)	30A (≥ 4sec.)	60A (≥ 4sec.)
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 55011 A	
Temperature Range	-25 - +60°C (Storage Temp. -40 - +85°C)	-25 - +70°C (Storage Temp. -40 - +85°C)		
Mounting Method	DIN rail mounting TH35 (EN 60715)			
Dimensions (H x W x D)	132 x 83 x 98mm	132 x 93 x 114mm	132 x 113 x 136mm	132 x 164 x 142mm



From the control cabinet... via the interface...
passive and active... into the field
Murrelektronik has your connectivity solutions