

1 Phase

2 Phases

3 Phases



5 Vdc 12 Vdc 48 Vdc 24 Vdc

	5 Vdc	12 Vdc	12 Vdc	12 Vdc	12 Vdc	48 Vdc	48 Vdc	48 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc								
INPUT DATA																									
Input (Volt)	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac							
Output (Vdc - W)	5 Vdc 35 W	12 Vdc 36 - 72 W	12 Vdc 120 - 180 W	12 Vdc 280 - 336 W	48 Vdc 120 - 180 W	48 Vdc 240 - 345 W	48 Vdc 480 - 600 W	24 Vdc 40 - 70 W	24 Vdc 95 - 120 W	24 Vdc 120 - 180 W	24 Vdc 240 - 330 W	24 Vdc 480 - 600 W	24 Vdc 95 - 120 W	24 Vdc 120 - 180 W	24 Vdc 240 - 330 W	24 Vdc 480 - 600 W	24 Vdc 95 - 120 W	24 Vdc 120 - 180 W	24 Vdc 240 - 330 W	24 Vdc 480 - 600 W					
Model	FLEX6005A	FLEX6012A	FLEX17012A	FLEX28012A	FLEX17048A	FLEX28048A	FLEX50048A	FLEX6024A	FLEX9024A	FLEX17024A	FLEX28024A	FLEX50024A	FLEX9024B	FLEX17024B	FLEX28024B	FLEX50024B	FLEX9024B	FLEX17024B	FLEX28024B	FLEX50024B					
Nominal Input Voltage	115 - 230 Vac	115 - 230 Vac	115 - 230 Vac Input*	115 - 230 Vac Input*	115 - 230 Vac Input*	115 - 230 Vac Input*	115 - 230 Vac Input*	115 - 230 Vac Input*	115 - 230 Vac	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*	115 - 230 Vac*				
Input Voltage Range	90 - 264	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	90 - 135 Vac 180 - 264 Vac	90 - 135 Vac 180 - 264 Vac	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	90 - 135 Vac 180 - 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	90 - 135 Vac 180 - 264 Vac	90 - 135 Vac 180 - 264 Vac	90 - 135 Vac 180 - 264 Vac				
Inrush Current (Vn and In Load) I2t	≤ 7 A ≤ 5 msec.	≤ 11 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 7 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 11 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec	≤ 16 A ≤ 5msec			
Frequency	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%	47 - 63 Hz ±6%			
Input Current	0.5 - 0.25 A	1 - 0.7 A	2.8 - 1.3 A	3.3 - 2.2 A	2.8 - 1.3 A	3.3 - 2.2 A	8.5 - 4.2 A	1.0 - 0.7A	1.8 - 0.9A	2.8 - 1.3A	3.3 - 2.2A	8.5 - 4.2 A	1.0 - 0.5 - 0.4A	1.5 - 0.8 - 0.7 A	2.2 - 1.4 - 1.0A	1.7A	1.7A	1.7A	1.7A	1.7A	1.7A	1.7A	1.7A		
Internal Fuse	4.0 A	4.0 A	4.0 A	6.3 A	4.0 A	6.3 A	10.0 A	4A	4A	4A	6.3A	10A	4A	4A	4A	6.3A	10A	4A	4A	4A	6.3A	10A	4A	4A	
External Fuse (recommended)	6 A (MCB curve B)	6.0 A	10.0 A	16.0 A	10.0 A	16.0 A	16.0 A	6A	10A	10A	16A	16A	10A	10A	16 A	16A	10A	10A	16 A	16A	10A	10A	16 A	16A	
OUTPUTS DATA																									
Output Voltage Factory Setting ±3%	5 Vdc	12 Vdc	12 Vdc	12 Vdc	48 Vdc	48 Vdc	48 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	24 Vdc	
Adjustment range (Vadj)	4.75 - 5.25 Vdc	10 - 15.5Vdc	10 - 14 Vdc	10 - 14 Vdc	41 - 55 Vdc	41 - 55 Vdc	41 - 55 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	22 - 27 Vdc	
Start up with capacitive load	≤ 50.000 mF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	≤ 50.000 μF	
Turn-On delay after applying mains voltage	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1.5 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	1 sec. (max)	
Continuous Current at 24 V < 40°C (In)	5.0 A	4 A (115) 6A (230)	14 A	16 A	3.75 A	7.0 A	12.0 A	2.0A (115) 3.0 A (230)	5.0A	7.5A	14A	25 A	5.0 A	7.5 A	14 A	25 A	5.0 A	7.5 A	14 A	25 A	5.0 A	7.5 A	14 A	25 A	
Continuous Current at 24 V < 50°C (In)	5.0 A	3 A (115) 5A (230)	12 A	15 A	3.0 A	6.0 A	11.0 A	1.5A (115) 2.5A (230)	4.5A	6.0A	12A	22 A	4.5 A	6.0 A	12 A	22 A	4.5 A	6.0 A	12 A	22 A	4.5 A	6.0 A	12 A	22 A	
Continuous Current at 24 V < 60°C (In)	5.0 A	2 A (115) 3A (230)	10 A	14 A	2.5 A	5.0 A	10.0 A	-	4.0A	5.0A	10A	20 A	4.0 A	5.0 A	10 A	20 A	4.0 A	5.0 A	10 A	20 A	4.0 A	5.0 A	10 A	20 A	
Power Boost Current (at 24Vdc 60°C ≥ 3min.)	5.0 A	4 A (115) 6A (230)	14 A	16 A	3.75 A	7.0 A	12.0 A	3.5A	5.0A	7.5A	14A	25 A	5.0 A	7.5 A	14 A	25 A	5.0 A	7.5 A	14 A	25 A	5.0 A	7.5 A	14 A	25 A	
Short circuit current (Icc)								7.0A	12A	16A	30A	60 A	12 A	16 A	30 A	60 A	12 A	16 A	30 A	60 A	12 A	16 A	30 A	60 A	
Hold-up Time (min. Vac) 24Vdc	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	Typ. 20 msec	
Residual Ripple	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	≤ 80 mV _{pp}	
Efficiency (50% of In)	≤ 82 %	≤ 88 %	≤ 91 %	≤ 92 %	≤ 91 %	≤ 91 %	≤ 92 %	≥ 88%	≥ 91%	≥ 91%	≥ 91%	≥ 92%	≥ 91%	≥ 91%	≥ 91%	≥ 92%	≥ 91%	≥ 91%	≥ 91%	≥ 91%	≥ 91%	≥ 91%	≥ 91%	≥ 92%	
Over temperature Protection	Shut-down output and automatic restart																								
Short-circuit protection	Continuous Mode						1° Hiccup Mode ; 2° Continuous Mode ; 3° Manual Reset						Continuous Mode						1° Hiccup Mode; 2° Continuous Mode; 3° Restart After Main						
Dissipation power load max (W)	6	6	17	28	17	28	54	6	11	17	28	54	11	17	28	54	11	17	28	54	11	17	28	54	
Over Load protection	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Over voltage output protection (Internal Failure)	Yes (typ. 15 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 72 Vdc)	Yes (typ. 72 Vdc)	Yes (typ. 72 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	Yes (typ. 35 Vdc)	
Parallel connection	✔	✔	✔	Easy parallel	✔	Easy parallel	Easy parallel	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Relay power good	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
CLIMATIC DATA																									
Ambient Temperature operation	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C	-25 - +70 °C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	-25 - +70°C	
Derating T ^a > (In)	>60° 2.5% °C	>60° 2.5% °C	>60° 2.5% °C	>60° 2.5% °C	>60° 2.5% °C	>60° 2.5% °C	>60° 2.5% °C	>50° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	> 60° 2.5% °C	
Ambient Temperature Storage	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85 °C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	-40 - +85°C	
Humidity at 25 °C	95 % to 25 °C	95 % to 25 °C	95 % to 25 °C	95 % to 25 °C	95 % to 25 °C	95 % to 25 °C	95 % to 25 °C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	95% to 25°C	
GENERAL DATA																									
Isolation Voltage (IN / OUT)	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	3000 Vac	
Isolation Voltage(IN / PE)	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	1605 Vac	
Isolation Voltage(OUT / PE)	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	500 Vac	
Reliability (MTBF IEC 61709)	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	> 500 000 h	
Pollution Degree Environment	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Connection Terminal Blocks Screw Type	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	4 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	4 mm	2,5 mm	2,5 mm	2,5 mm	4 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	2,5 mm	4 mm	4 mm	
Dimension (w-h-d) mm	50x120x50	50x120x50	55x110x105	72x115x135	55x110x105	72x115x135	85x120x140	50x120x50	55x110x105	55x110x105	72x115x135	85													