

SFL Specifications

Parameter	Value	
Input		
Input voltages nominal (user selectable)	93-132 Vac / 187-264 Vac	
Input Frequency	47-63 Hz	
Input current at full load (typical)	115 Vac	230 Vac
– 75 W (12 V/6 A, 24 V/3 A, 48 V/1.5 A)	1.7A	0.9 A
– 150 W (24 V/6 A, 48 V/3 A)	3.0A	1.7 A
– 300 W (24 V/12 A, 48 V/6 A)	5.4A	3.3 A
– 600 W (24 V/24 A, 48 V/12 A)	10.5A	6.4 A
Inrush current (max.)	115 Vac	230 Vac
– 75 W	16.5 A	33.0 A
– 150 W	35.0 A	70.0 A
– 300 W	35.0 A	70.0 A
– 600 W	70.0 A	80.0 A
Internal fuse (slow blow) not accessible		
– 75 W / 150 W	4.0 A	
– 300 W	6.3 A	
– 600 W	12.0 A	
Output		
Voltage Adjustment Range		
– 12 V models	12 – 14 Vdc	
– 24 V models	24 – 28 Vdc	
– 48 V models	48 – 52 Vdc	
Output Regulation		
– Line voltage variation	±0.2% max.	
– Load variation 10–90%		
75W, 150W models	±1.0% max.	
300W, 600W models	±0.5% max.	
Ripple and noise (20 MHz bandwidth)	< 50 mVpp	
Electronic short circuit protection / current limitation	110 % typ. (constant current)	
Parallel Operation		
– SFL12–24–100RED	Up to 5 units	
– SFL24–24–100RED		
Overvoltage Protection, trigger point at	140% typical out nominal	
Holdup Time	min. 20 mS	

Parameter	Value	
General		
Operating Temperature Range Derating above 50°C	-25°C...+70°C 2%/°C	
Storage Temperature	-25°C...+85°C	
Humidity (non condensing)	95% rel H max.	
Switching Frequency		
– 75 W	100 kHz typical	
– 150 W/300 W/600 W	67 kHz typical	
Efficiency	>85%	
Operation Indication	LED, DC OK	
Isolation Voltage		
– Input/output	3,000 Vac (1 minute)	
– Input/case	2,000 Vac (1 minute)	
– Output/case	500 Vac (1 minute)	
Safety Class (IEC536)	Class 1	
Safety Standards Met	IEC950, EN60950, CE marked for LVD, UL60950 recognized and UL 508.	
Conducted EMI according to:	EN55022 Class B, EN55011 Class B, FCC-B	
Electromagnetic Susceptibility		
– Electrostatic discharge ESD.	EN61000-4-2	4 kV/8 kV
– RF field susceptibility.	EN61000-4-3	10 V/m
– Electrical fast transients/ bursts on main line.	EN61000-4-4	2 kV
– Immunity to conducted radio frequency disturbances above 9 kHz.	EN61000-4-6	10 V
– Mains frequency field	EN61000-4-8	30 A/m
Case protection according to IEC529	IP 20	
Case material	Steel	
Mounting	Snap-on 35 mm DIN Rail as per EN50022 or Chassis mounting option available	

Mounting Brackets

For easy conversion to panel or chassis mounting.

Catalog Number	Output Power Maximum
SFL 75–PMBRK	75 Watt
SFL 150–PMBRK	150 Watt
SFL 300–PMBRK	300 Watt
SFL 600–PMBRK	600 Watt