



Technical Data Sheet

F POWER 60XXA



Special Features

- Input: single-phase, 115 – 230 Vac
- Strong overload capability without switch-off
- DIN rail mountable
- Extremely small size (1.97 x 4.72 x 1.97 inches)
- 3-year warranty



Parameter	6005A	6012A	6024A
Input Data			
Nominal Input Voltage (2 x Vac)	115 – 230		
Input Voltage Range (Vac)	90 – 280		
Inrush Current (Vn and In Load) I _{pt}	≤ 7 A ≤ 5 msec.	≤ 11 A ≤ 5 msec.	≤ 7 A ≤ 5 msec.
Frequency	47 – 63 Hz ±6%		
Input Current (115 – 230 Vac)	0.5 – 0.25 A	1 – 0.7 A	1 – 0.7 A
Internal Fuse	T 4 A		
External Fuse (recommended)	6 A (MCB curve B)		
Output Data			
Output Voltage (Vn), Factory Setting ±3%	5 Vdc	12 Vdc	24 Vdc
Adjustment Range (Vadj)	4.75 – 5.25 Vdc	10 – 15.5 Vdc	22 – 27 Vdc
Start-up with Strong Load (capacitive load)	≤ 50,000 μF		
Turn-On Delay after Applying Mains Voltage	1.5 sec. (max)		
Continuous Current at Vn up to 40°C (In)	5 A	4 A (115 V)/ 6 A (230 V)	2 A (115 V)/ 3 A (230 V)
Continuous Current at Vn up to 50°C (In)	5 A	3 A (115 V)/ 5 A (230 V)	1.5 A (115 V)/ 2.5 A (230 V)
Continuous Current at Vn up to 60°C (In)	5 A	—	—
Power Boost Current (≤ 3 min.)	7 A @ 5 Vdc	7 A @ 12 Vdc/ 6 A @ 15 Vdc	3.5 A @ 24 Vdc
Current Max. Overload (permanent)	≡ 2 Vdc, Imax = In50°C x (1.3-1.4)	≡ 4 Vdc, Imax = In50°C x (1.8-2.2)	≡ 4 Vdc, Imax = In50°C x (1.8-2.2)
Max Current Short Circuit (Icc)	10 A	10 A	7 A
Hold-up Time (min. Vac)	Typ. 20 msec		
Residual Ripple	≤ 80 mVpp		
Efficiency	≥ 82 %	≥ 88 %	≥ 88 %
Over Temperature Protection	Yes. Shut-down output and automatic restart.		
Short-circuit Protection	Yes, Continuous Mode		

Dissipation Power Load Max (W)	6		
Over Load Protection	Yes, Continuous Mode		
Over Voltage Output Protection	Yes (typ. 15 Vdc)	Yes (typ. 30 Vdc)	Yes (typ. 35 Vdc)
Parallel Connection	Yes		
Climatic Data			
Ambient Temperature Operation	-25°C to +70°C (>60°C derating 2.5%/°C)	-25°C to +70°C (>50°C derating 2.5%/°C)	-25°C to +70°C (>50°C derating 2.5%/°C)
Ambient Temperature Storage	-40°C to +85°C		
Humidity at 25°C, no condensation	95% to 25°C		
General Data			
Isolation Voltage (In / Out)	3000 Vac		
Isolation Voltage (In / PE)	1605 Vac		
Isolation Voltage (Out / PE)	500 Vac		
Protection Class (EN/IEC 60529)	IP 20		
Reliability: MTBF (IEC 61709)	> 500,000 h		
Pollution Degree Environment	2		
Connection Terminal Blocks (Screw Type)	2.5 mm² (24 – 14 AWG)		
Protection Class	I with PE connected		
Dimension (w-h-d)	1.97 x 4.72 x 1.97 inches		
Weight	0.3 kg approx.		

Norms and Certifications:-

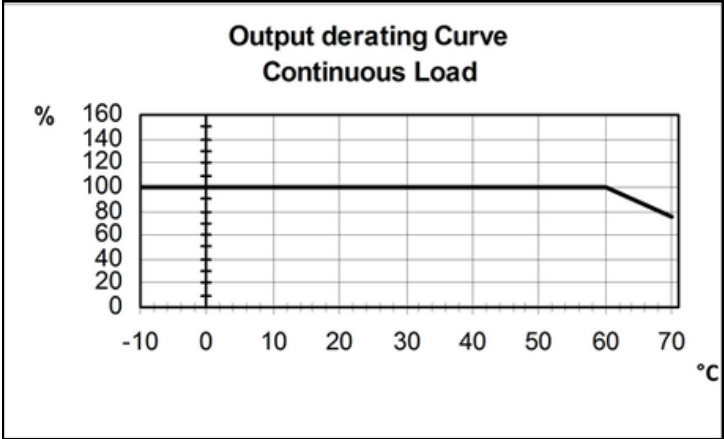
In accordance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC

- **Electrical Safety:** According to IEC/EN 60950 (VDE 0805) and EN 50178 (VDE 0160) for assembling device. The unit must be installed according to IEC/EN 60950. Input/Output separation: SELV EN60950-1 6th Edition, and PELV EN 60204-1. Double or reinforced insulation
- **EMC Immunity:** EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN61000-6-2
- **EMC Emission:** EN61000-6-4, EN61000-3-2
- **Standards Conformity:** EN 60204-1 – Safety of Electrical Equipment of Machines

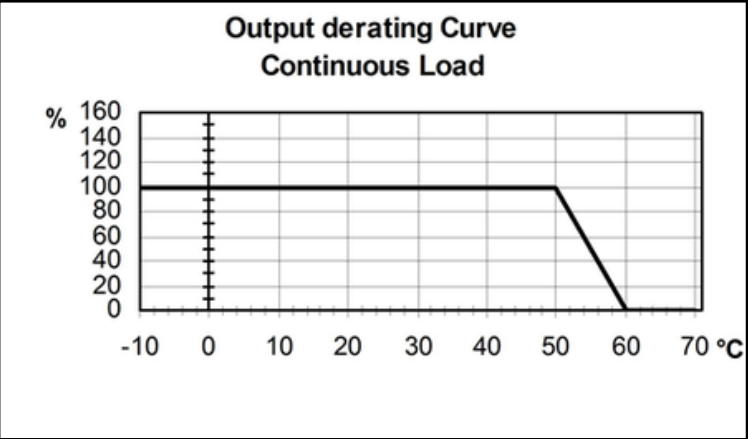
Derating Curves:-

Load Current in % Vs Temperature in C

Rish Flex 6005A

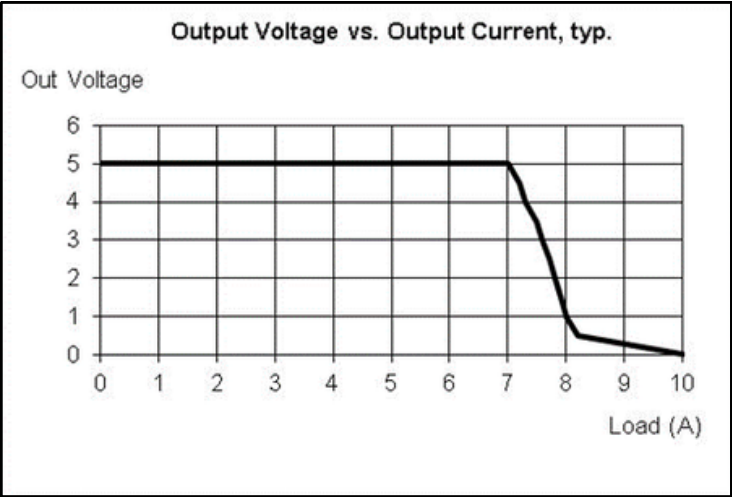


Rish Flex 6012A / 6024A

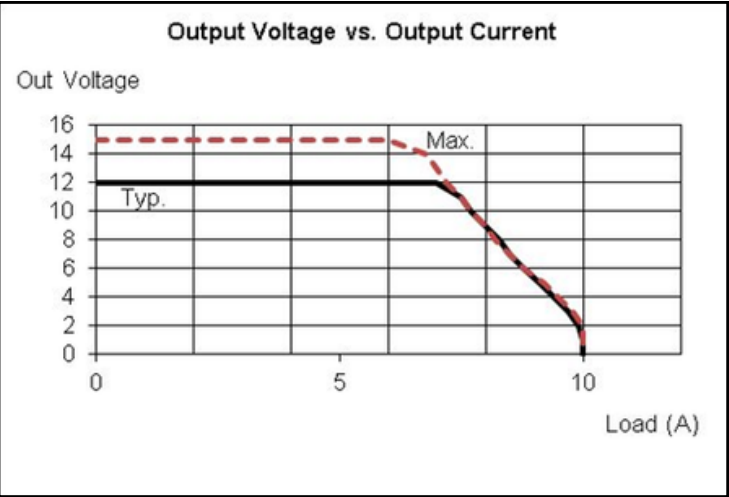


Output Voltage Vs Load Current

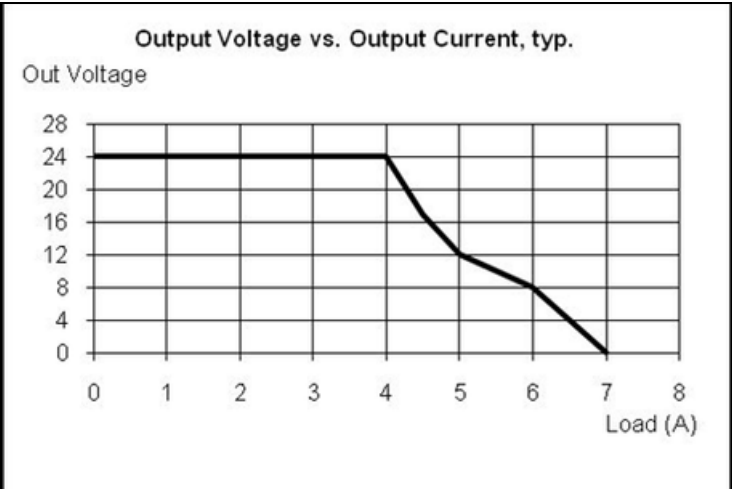
Rish Flex 6005A



Rish Flex 6012A



Rish Flex 6024A



Ordering Information

Rish Flex 60xxA												
Product Code	RF13-	X	X	0	0	0	0	0	0	0	0	OST
System of RF13 (F POWER)	1P	1										
F POWER 6005A	35W,05V 1P		T									
F POWER 6012A	60W,12V 1P		S									
F POWER 6024A	60W,24V 1P		A									
Reserved				0	0	0	0	0	0	0	0	OST



Sifam Tinsley Instrumentation Inc.
2105, Barrett Park Dr, Unit 105,
Kennesaw, GA 30144
(USA)
E-mail Id : psk@sifamtinsley.com
Web : www.sifamtinsley.com
Contact No. :+1 404 736 4903