

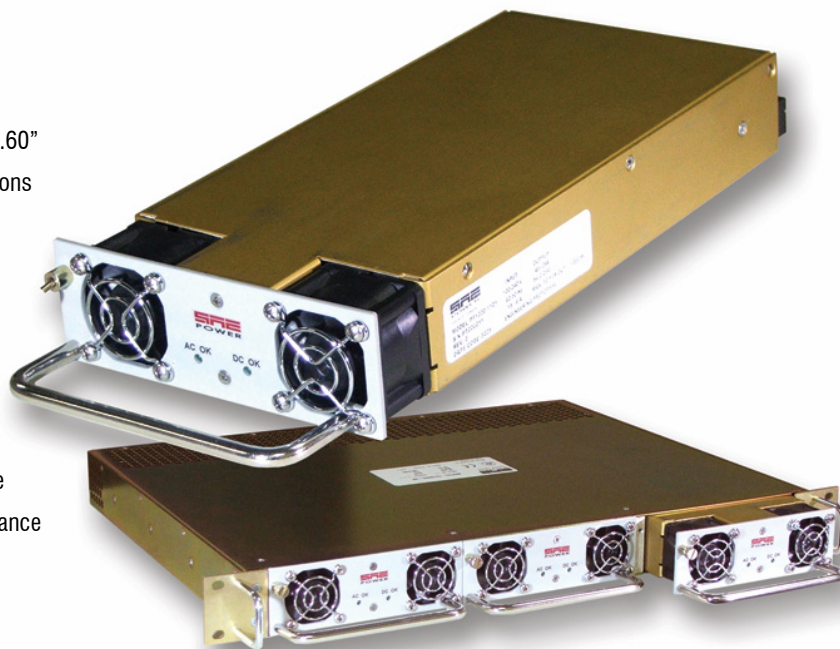
PF1000-2402

1000 Watt 24V Front-End power Supply Module



Features:

- Small 1U High Package measuring only 10.25 x 4.83 x 1.60"
- Short Length of only 10.25" ideal for embedded applications
- Full Output Power over entire 90-264 VAC Input Range
- Optional 1U High 19" Rack-Mount Power Shelf
- Internal Oring FETS for Redundant Operation
- Active Digital Current Sharing
- I²C Interface and Analog Status & Control Signals
- Auxiliary Output Voltage (5VSB @ 1000ma)
- Isolated Output may be referenced as positive or negative
- Active Power Factor Correction for EN61000-3-2 Compliance
- International Safety Standards & RoHS Compliant
- 2 Year Warranty



Input Specifications:

| | |
|-----------------|------------------------------------|
| Input Range | Universal AC (90-264VAC / 47-63Hz) |
| Inrush Current | 30 Amp Max (cold start) |
| Efficiency | 88% Typical |
| Hold-Up Time | 20ms (minimum) |
| Leakage Current | 1mA rms |
| Harmonics | >0.98 Power Factor |

Output Specifications:

| | |
|------------------|-----------------------------|
| Main Output | 24V @ 41.7A |
| Auxiliary Output | 5VSB @ 1000mA |
| Regulation | ±1% max (line, load & temp) |
| Ripple / Noise | ±1%pk-pk max (20MHz) |
| OCP | >110%, auto-recovery |
| OVP | >115~125% of nominal |

Status & Control Signals:

See Engineering Specification for complete details:

- Digital I2C Interface
- Remote Sense
- Voltage Adjust
- Fan Fail
- DC OK
- Enable / Inhibit
- Single Wire Parallel
- Current Monitor
- AC OK
- Over-Temp

Electromagnetic Compatibility:

| | |
|-----------------|--|
| ESD | EN61000-4-2, ±4KV Contact / ±8KV Air Discharge |
| Susceptibility | EN61000-4-3, 26-1000MHz, 10V/M, 80% AM |
| EFT / Bursts | EN61000-4-4, ±2KV |
| Surges | EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line |
| Immunity | EN61000-4-6, 0.15-800MHz, 10V, 80% AM |
| Voltage Dips | EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms |
| Interruptions | EN61000-4-11, 95% reduction, 5s |
| Fluct / Flicker | EN61000-3-3 |

Environmental Specifications:

| | |
|----------------|---|
| Operating Temp | -10~+50°C (De-Rate 2.5%/°C up to +70°C max) |
| Storage Temp | -40 ~ +85°C |
| Cooling | Internal Ball Bearing Fans with Temperature Speed Control |
| Humidity | 20~90% RH (non-condensing) |
| Vibration | 10~55Hz, 2G, 3min period, 60min each (3 axes) |
| Shock | 20G Peak Acceleration |
| Reliability | 250k Hours MTBF (Full Load & 25°C Operation) |

Safety & Emissions:

- cTUVus En60950-1
- EN55022 Class B
- CE Mark (LVD)
- RoHS Compliance

Please see our website for the complete engineering specification. The information and specifications contained herein are subject to change without notice.

USA

1500 E. Hamilton Ave. #118
Campbell, CA 95008 USA
tel: 408.369.2200
fax: 408.369.4911

Canada

1810 Birchmount Road
Toronto, ON M1P 2H7
tel: 416.298.0560
fax: 416.298.0806

Hong Kong

CDW Bldg, Blk D, 22F, 388
Castle Peak Rd.
Tsuen Wan N.T., Hong Kong
tel: 2411 3623, 2411 3624

www.saepower.com

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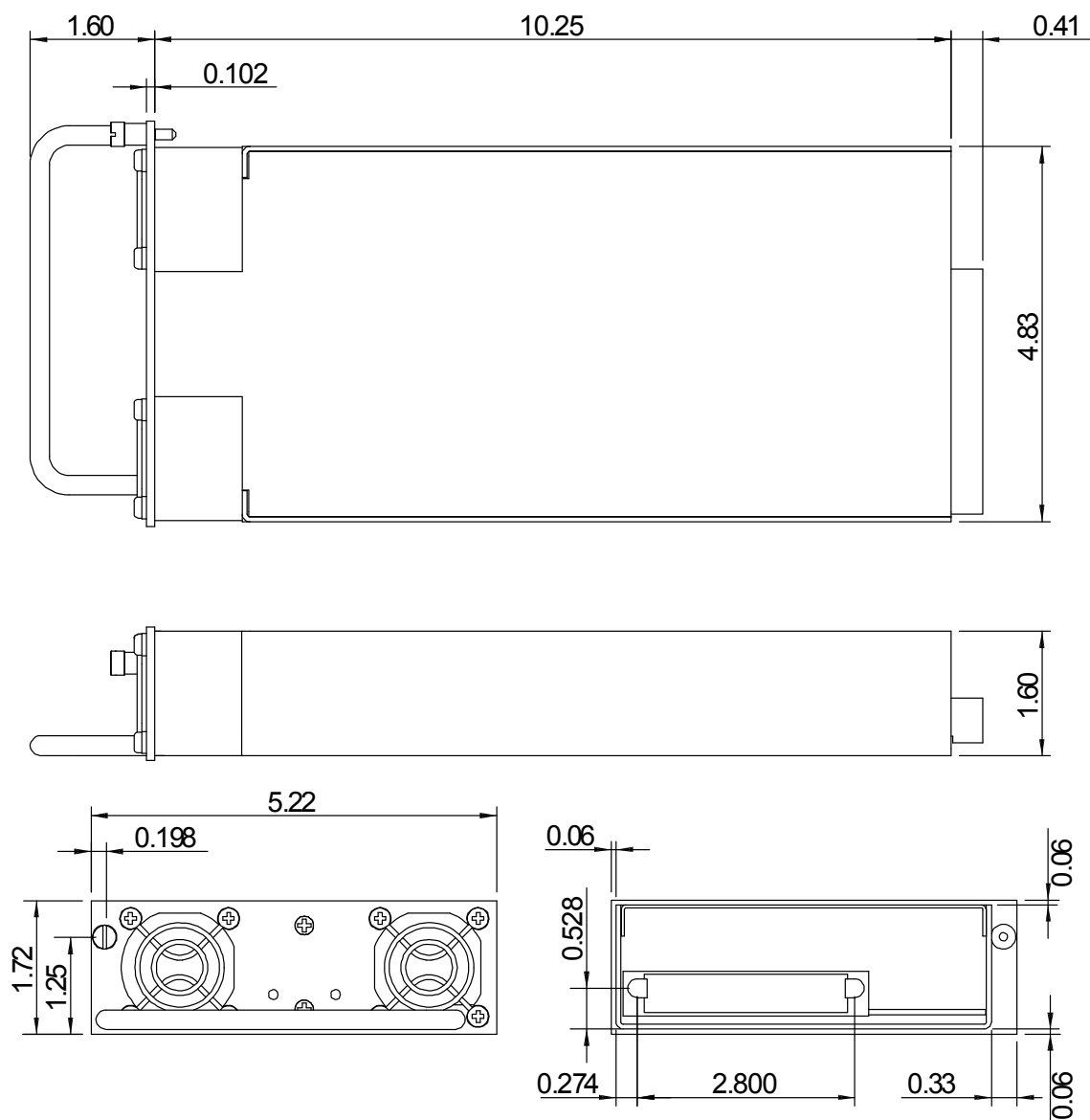


Ordering Information:

| Part Number | Description |
|-------------|---|
| PF1000-2402 | 1000 Watt / 24V Front End power Supply Module |
| 1U100SB | 3 Bay / 1U High Power Shelf (14.60" Depth) |
| BP-3A-1U | Blank Faceplate |

Mechanical Drawing:

See Engineering Specification for complete details including connector and pin assignments



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