

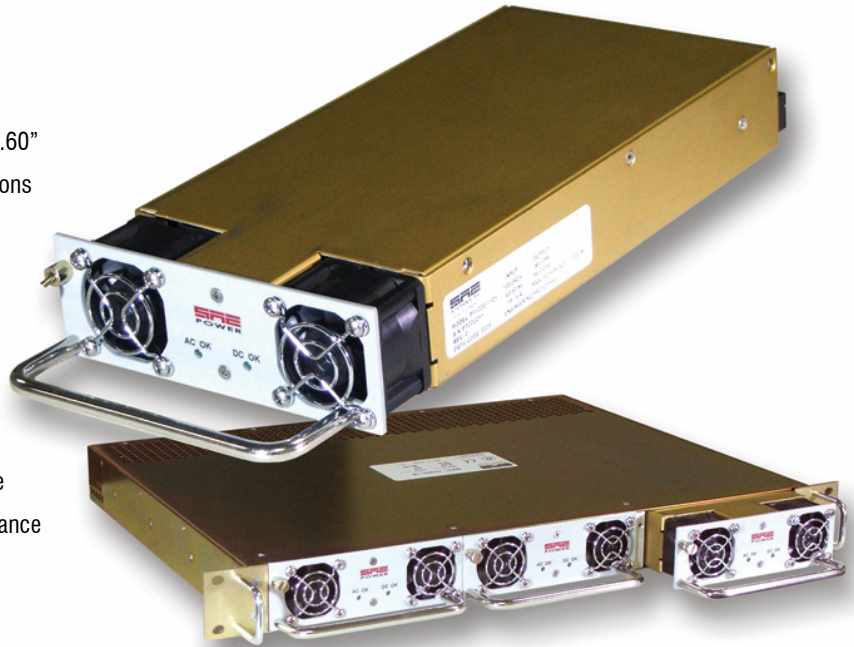
# PF1000-4802

1000 Watt 48V 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
- I<sup>2</sup>C 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	48V @ 20.83A
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](http://www.saepower.com)

# PF1000-4802

1000 Watt 48V Front-End power Supply Module

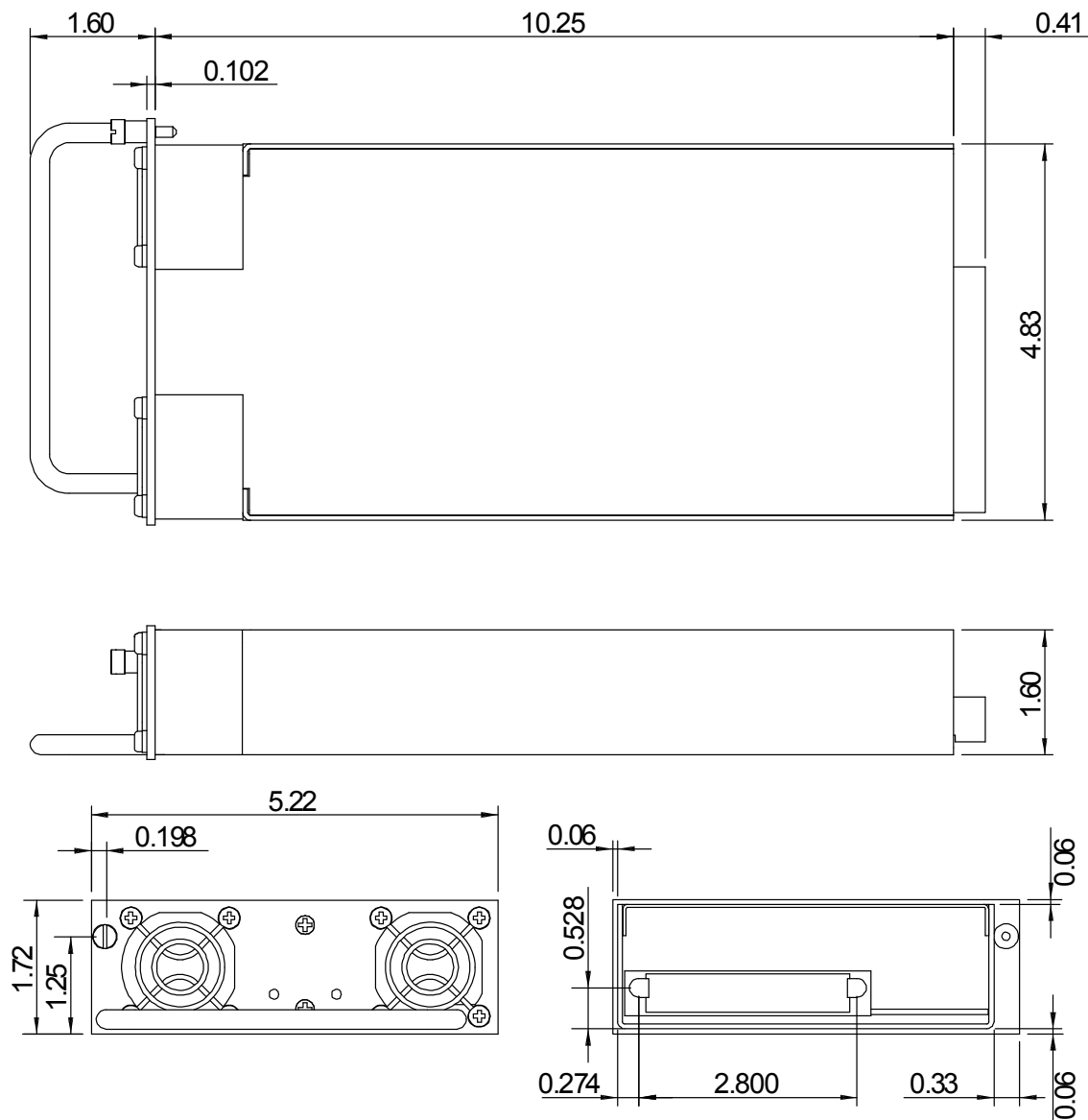


## Ordering Information:

Part Number	Description
PF1000-4802	1000 Watt / 48V 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



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](http://www.saepower.com)