

# 3-OUTPUT POWER PLATFORM

## CAT# PS-017

### Specifications

PB1005AC-A24V500M-X-X0V0M-X0V0M-C24V150M-C24V150M-C-AN



Module Type	Maxi	None	None	Micro	Micro	
Output Voltage	24	0	0	24	24	V
Peak Output Power	500	0	0	150	150	W
Output Termination	Molex Minifit Sr.	Molex Minifit Sr.	Molex Sabre	Molex MiniFit Sr.	Molex MiniFit Sr.	

Product Grade

**C**

Fan

Internal fans connected to output A

Control Input

All outputs normally ON. Active High signal inhibits all outputs.



Vicor 2nd Generation modules inside.

These are basic product specifications only. For complete specifications visit NPI at [www.npi-inc.com](http://www.npi-inc.com).



**AC/DC Power Supply**  
**5 Outputs**  
**1000W**  
**Low-Profile 1.68"**



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**Specifications**

All specifications are at nominal input, full load, 25°C and C-grade models, unless otherwise noted.

**Input**

Nominal Input Voltage	115/230VAC
Input Voltage Range	95-132VAC or 180-264VAC
Input Frequency	47-63 Hz (47-400Hz T-Grade)
Inrush Current (264 VAC peak line, cold start.)	30 A
Input Fuse	None
Power Factor (typ.)	0.60

**Output<sup>1</sup>**

Output #	A	B	C	D	E
Maximum Output Current (Connector Limit)	80A		18A		40A
Output Voltage (Factory configurable)	1.8 to 52 V		1.8 to 52 V		
Output Voltage Setpoint	1.2%		1.2%		
Load Regulation, No load to full load (typ.)	0.25%		0.5%		
Line Regulation, Low Line to High Line (typ.)	0.35%		0.5%		
Maximum Output Power	500W		150 W		
Remote Sense	Yes		No		
Output Ripple and Noise (typ.) 20MHz BW	1%		1.5%		

**Environmental**

Operating Temperature Range	-20°C to 70°C (-40°C to 70°C, T-Grade)
Storage Temperature Range	-40°C to 70°C
Relative Humidity	5% -95% non-condensing

**Safety**

Agency Approvals	UL, TUV, CE
Safety Standard Compliance	EN60950, UL1950
Isolation, Primary-to-Secondary	3,000 Vrms
Isolation, Primary-Earth	1,500 Vrms
Isolation, Secondary-Earth	250 Vrms

<sup>1</sup> See model number selection chart for limitations.

**EMI and EMC**

Conducted Noise

EN55022 Class A (150kHz-30MHz)

**Mechanical**

Dimensions

10.5" x 7" x 1.68"

Cooling

Internal Fan (-F Option)  
System Forced Air (-S Option)

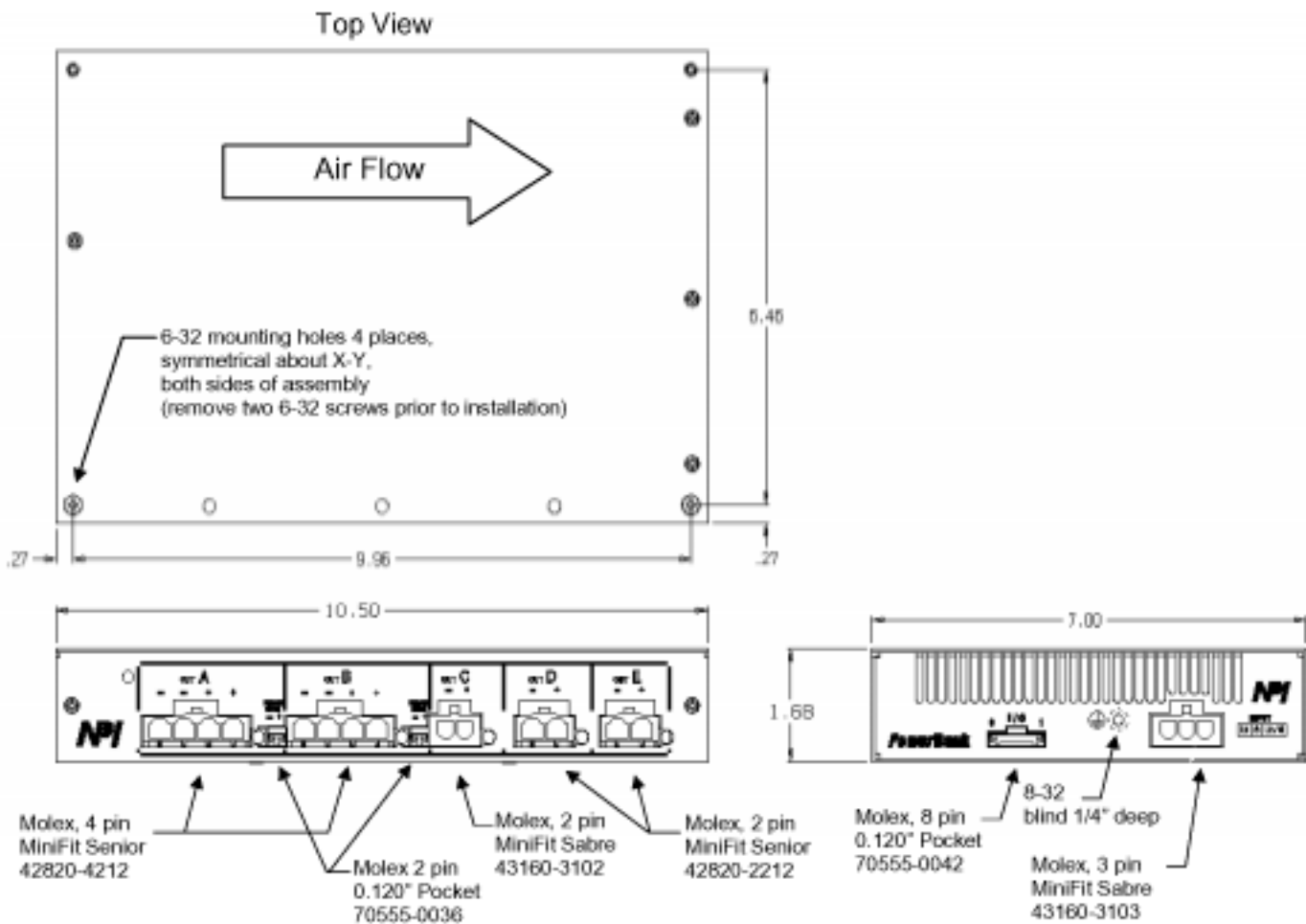
Weight (Typical, depends on configuration)

6.6 lb. (3 kg)


**Maximum Output Power vs. Air Flow and Air Temperature  
With Internal Fans (24V Output, -F Option)**

Input	-20 to 60°C	60 to 70°C	70°C
115 VAC	800 W	800 W	800 W
230VAC	1000 W	Derate 20W/°C	800 W

**Mechanical Drawing**



## Connections

Input		
Pin	Signal Description or Symbol	Details
1	L1	AC Line 1
2		Safety Ground
3	L2 / N	AC Line 2 or Neutral

Outputs A and B			
Pin	Signal Description	Details	
		Option -C	Option -B
1	+	Positive Terminal, 49A max	Positive Terminal, 1/4" hole, 100A max
2	+	Positive Terminal, 49A max	
3	-	Negative Terminal, 49A max	Negative Terminal, 1/4" hole, 100A max
4	-	Negative Terminal, 49A max	

Outputs A and B - Remote Sense Connector		
Pin	Signal Description	Details
1	+	Positive Sense Connection
2	-	Negative Sense Connection

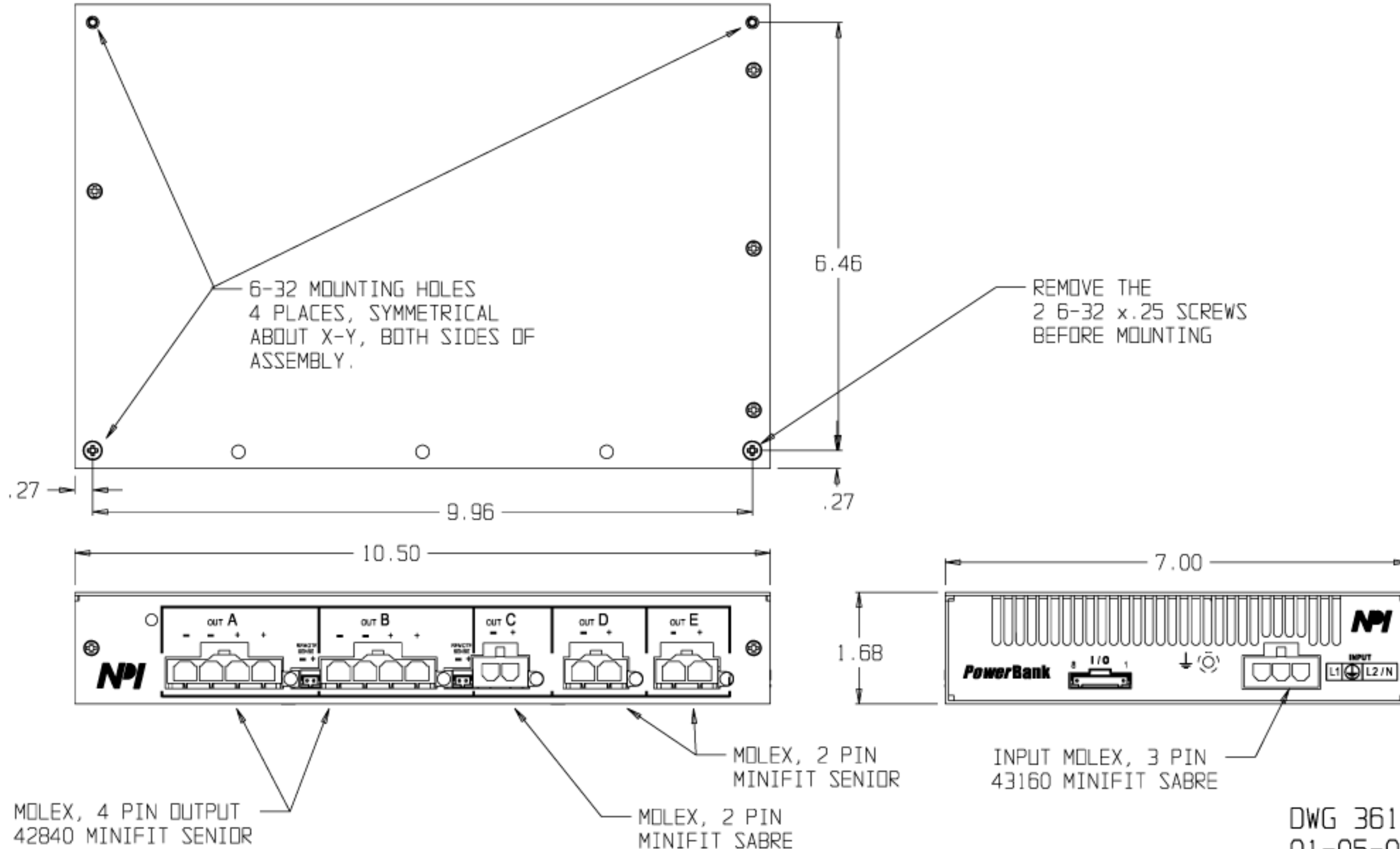
Output C		
Pin	Signal Description	Details
1	-	Negative Terminal, 18A max
2	+	Positive Terminal, 18A max

Outputs D and E		
Pin	Signal Description	Details
1	+	Positive Terminal, 20A max
2	-	Negative Terminal, 20A max

I/O Connections		Note: All control signals are isolated; Input - 3,000 Vrms; Output - 250 Vrms; Chassis - 250 Vrms	
Pin	Signal Description	Details	
		Option -N	Option -E
1	Output Inhibit or Enable	Application of 5V/25mA signal inhibits all outputs. Optoisolator input with 200Ω series resistor.	Application of 5V/25mA signal enables all outputs. Optoisolator input with 200Ω series resistor.
2	Not Connected	Reserved for future use.	
3	Output A Power Good	Open Collector, 60V/1mA, Active Low = Power Good	
4	Output B Power Good	Open Collector, 60V/1mA, Active Low = Power Good	
5	Output C Power Good	Open Collector, 60V/1mA, Active Low = Power Good	
6	Output D Power Good	Open Collector, 60V/1mA, Active Low = Power Good	
7	Output E Power Good	Open Collector, 60V/1mA, Active Low = Power Good	
8	I/O Control Signal Return	All I/O control signals on pins 1-7 are referenced to this pin.	

# PowerBank

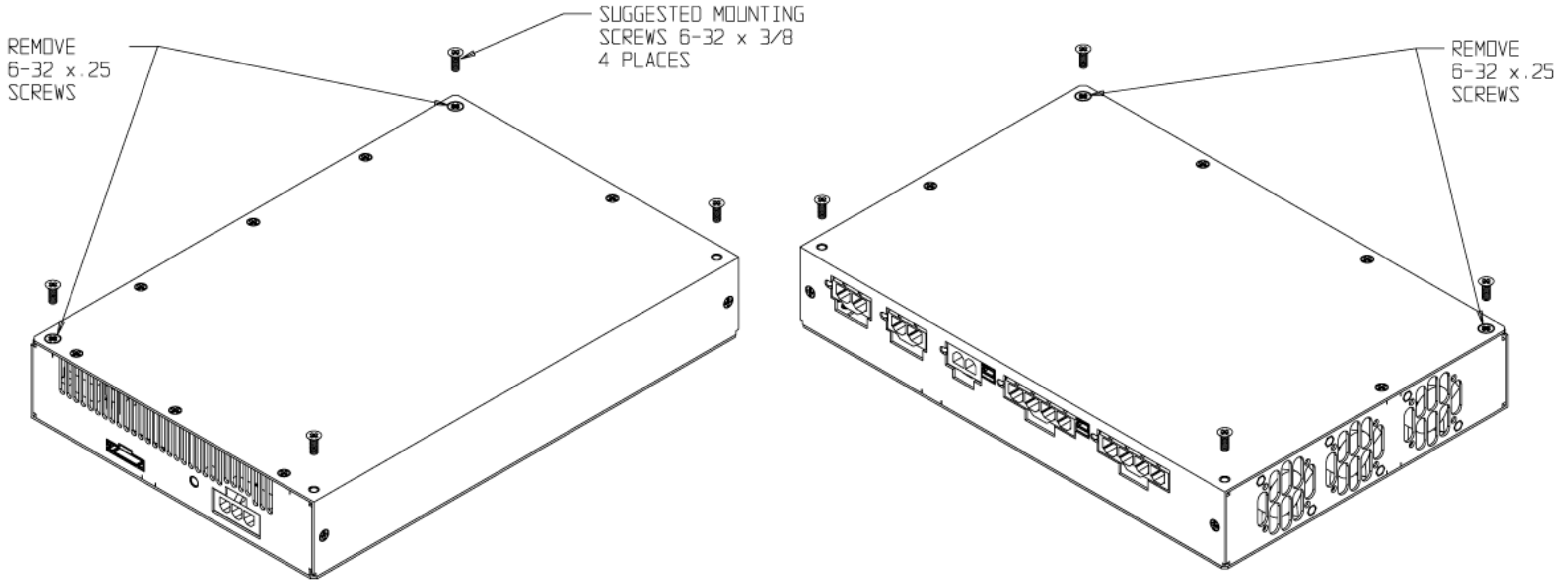
## PB1005AC Outline Drawing



# PowerBank

PB1005AC Outline Drawing

**NPI** Northwest  
Power  
Inc.



TOP VIEW

DWG 3611 REV A  
01-05-01 SHEET 2

BOTTOM VIEW