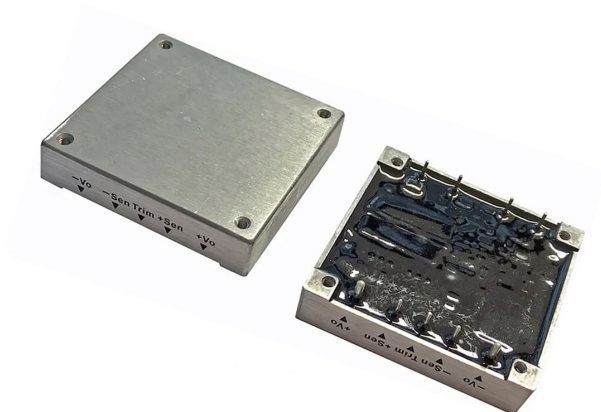


FEATURES

- * 33-50W Isolated Output
- * Efficiency to 87%
- * 300KHz Switching Frequency
- * 4:1 Input Range
- * Regulated Outputs
- * Continuous Short Circuit Protection
- * Five-Sided Shield Metal Case
- * Half-Brick Size Meet Industrial Standard
- * UL60950-1 Approval (Except 28 Vout)
- * Safety Meets IEC/EN/UL62368-1



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT		INPUT CURRENT		% EFF.	CAPACITOR LOAD MAX.
			MIN.	MAX.	NO LOAD	FULL LOAD		
PS50W-24S33	9-36 VDC	3.3 VDC	0 mA	10 A	50 mA	1740 mA	79	10000uF
PS50W-24S05	9-36 VDC	5 VDC	0 mA	10 A	50 mA	2570 mA	81	10000uF
PS50W-24S12	9-36 VDC	12 VDC	0 mA	4.16 A	50 mA	2510 mA	83	4160uF
PS50W-24S15	9-36 VDC	15 VDC	0 mA	3.33 A	50 mA	2448 mA	85	3330uF
PS50W-24S24	9-36 VDC	24 VDC	0 mA	2.08 A	50 mA	2476 mA	84	2080uF
PS50W-24S28	9-36 VDC	28 VDC	0 mA	1.78 A	50 mA	2510 mA	83	1780uF
PS50W-24S48	9-36 VDC	48 VDC	0 mA	1.04 A	50 mA	2506 mA	83	1040uF
PS50W-48S33	18-75 VDC	3.3 VDC	0 mA	10 A	50 mA	848 mA	81	10000uF
PS50W-48S05	18-75 VDC	5 VDC	0 mA	10 A	50 mA	1255 mA	83	10000uF
PS50W-48S12	18-75 VDC	12 VDC	0 mA	4.16 A	50 mA	1223 mA	85	4160uF
PS50W-48S15	18-75 VDC	15 VDC	0 mA	3.33 A	50 mA	1196 mA	87	3330uF
PS50W-48S24	18-75 VDC	24 VDC	0 mA	2.08 A	50 mA	1209 mA	86	2080uF
PS50W-48S28	18-75 VDC	28 VDC	0 mA	1.78 A	50 mA	1223 mA	85	1780uF
PS50W-48S48	18-75 VDC	48 VDC	0 mA	1.04 A	50 mA	1238 mA	84	1040uF

NOTE: 1. Nominal Input Voltage 24, 48VDC

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS:

Input Voltage Range.....	24V	9 – 36V
	48V	18 – 75V
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.

Under Voltage Lockout:

24Vin power up 8.8V, power down 8V

48Vin power up 17V, power down 16V

Positive Logic Remote On/Off (note3&4)

Input Filter Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy (note7) $\pm 1.0\%$ max.

Transient Response: 25% Step Load Change $<500\mu\text{s}$

External Trim Adj. Range $\pm 10\%$

Ripple & Noise, 20MHz BW (note5)

3.3V&5V 40mV RMS max., 100mV pk-pk max.

12V&15V 60mV RMS max., 150mV pk-pk max.

24V 100mV RMS max., 240mV pk-pk max.

28V 100mV RMS max., 280mV pk-pk max.

48V 200mV RMS max., 480mV pk-pk max.

Temperature Coefficient $\pm 0.03\%/^{\circ}\text{C}$ max.

Short Circuit Protection Continuous

Line Regulation (note1&7) $\pm 0.2\%$ max.

Load Regulation (note2&7) $\pm 0.2\%$ max.

Over Voltage Protection Trip Range, % Vo nom. 115-140%

Current Limit 110% -160% Nominal Output

Start up Time 5ms typ.

GENERAL SPECIFICATIONS:

Efficiency See Table

Isolation Voltage ... Input/Output, Input/Case, Output/Case ... 1500VDC min.

Isolation Resistance 10^7 ohm min.

Isolation Capacitance 1000pF typ.

Switching Frequency 300KHz typ.

Operating Case Temperature -40°C to 100°C

Storage Temperature -55°C to $+105^{\circ}\text{C}$

Thermal Shutdown Case Temp. 100°C typ.

Humidity 95% RH max. Non Condensing

MTBF MIL-HDBK-217F, GB, 25°C , Full Load 1000Khrs typ.

Dimensions 2.28x2.40x0.50 inches (57.9x61.0x12.7 mm)

Case Material Aluminum

Weight 94g

NOTE:

1. Measured from high line to low line.

2. Measured from full load to zero load.

3. Logic compatibility open collector ref to -input

Module on $>3.5\text{VDC}$ to 75VDC or open circuit

Module off 0 to $<0.8\text{VDC}$

4. Suffix "N" to the model number with negative logic remote on/off.

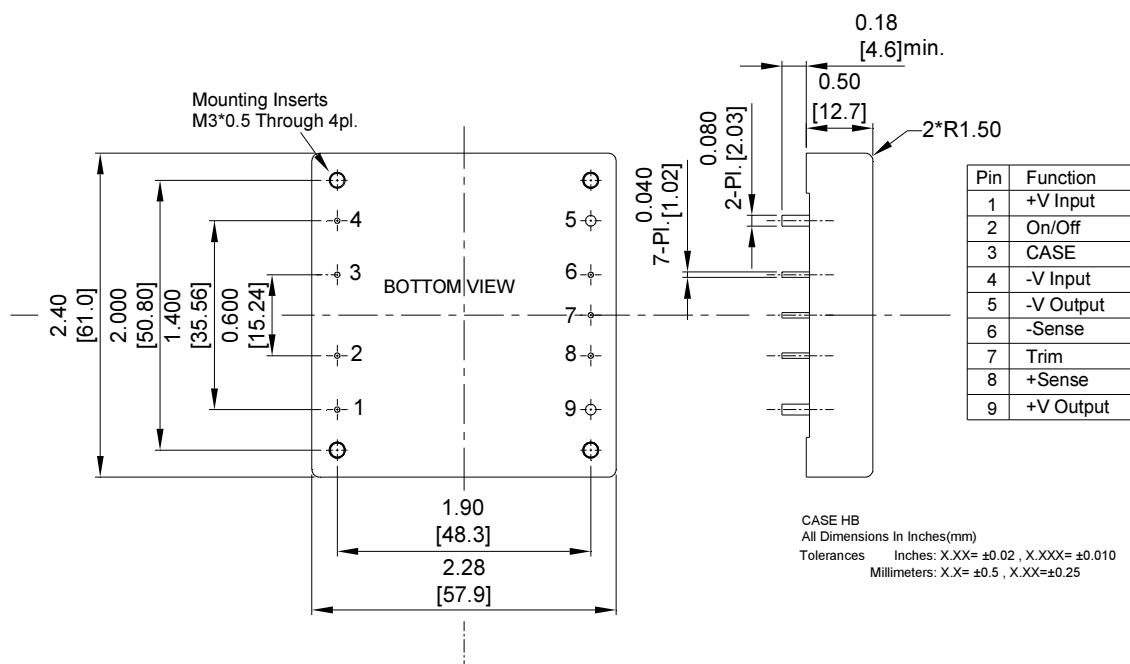
Module on 0 to $<0.8\text{VDC}$

Module off $>3.5\text{VDC}$ to 75VDC or open circuit

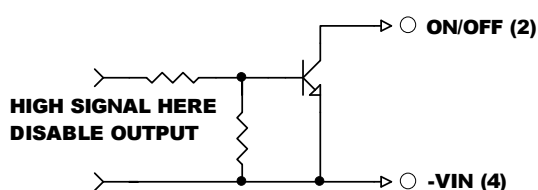
5. Output ripple and noise measured with 10uF tantalum and 1uF ceramic capacitor across output. (48V: 1uF ceramic cap. only)

6. Suffix "-C" to the model number with clear mounting insert (3.2mm DIA.)

7. Require a 47uF aluminum capacitor connected between +Vout and -Vout for 48Vout models.



REMOTE ON/OFF CONTROL



EXTERNAL OUTPUT TRIM

