PICO Electronics

Pico's New 300 Watts
Series XPB

Features:

- Input Over Voltage Protection
- Output Voltage Protection (Latched)
- Over Tem. Shutdown
- Tight Load and Line Regulation
- No External Components Needed
- High Density/High Efficiency
- Remote Shutdown
- Trim Capabilities
- In/Out Synchronization
- Fixed/Frequency Operation

Typical Characteristics:

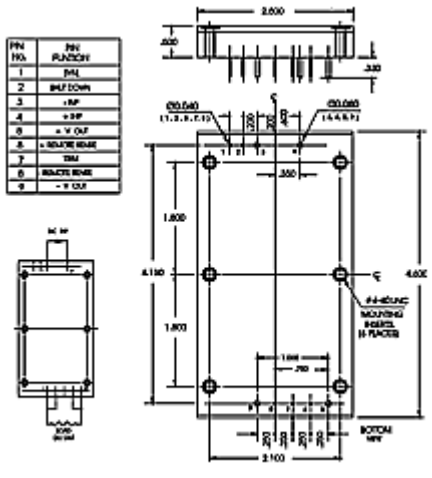
- Storage Temp.: -55º C to +105º C
- Frequency: 300 Khz (Fixed)
- Baseplate Temp.: +85º C
- Operation Temp.: See Thermal Chart and Application Notes
- Test Condition: +25º C (Room. Temp.)
- Isolation:

  Input-Output 2000V DC
  Input Baseplate 2000V DC
  Output Baseplate 1000V DC

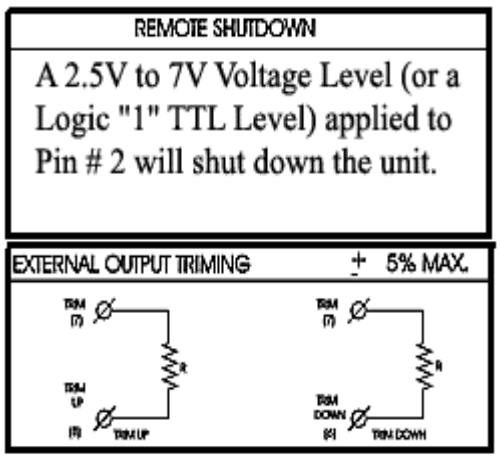
High Power
Series XPB
36 - 72V DC

Pico Part Number	Input Voltage Range	Output Voltage DC	Max. Load Current (A)	Max. Output Power (Watts)	Eff. @ Full Load Typical (A)	Input Current Full Load Typical (%)	Output Ripple @ Full Load 1-1MHz BW Mv p-p	Out Volt Tolerance (±%)*	LD Reg 10%-100% Load (±%)*	Line Regulation (±%)*	Price (US $)
XPB3.3S	36-72	3.3	30.3	100	79	3.86	50	1.0	0.75	0.5	307.16
XPB5S	36-72	5	30	150	81	3.86	50	0.75	0.5	0.5	307.16
XPB5.2S	36-72	5.2	28.8	150	81	3.86	50	0.75	0.5	0.5	307.16
XPB9S	36-72	9	27.8	250	85	6.13	50	0.5	0.5	0.5	307.16
XPB12S	36-72	12	22.9	275	86	6.67	50	0.5	0.5	0.5	307.16
XPB15S	36-72	15	18.3	275	86	6.67	50	0.5	0.5	0.5	307.16
XPB24S	36-72	24	12.5	300	86	7.27	75	0.3	0.3	0.2	307.16
XPB28S	36-72	28	10.7	300	87	7.18	75	0.3	0.3	0.2	307.16

* Measurments taken with input voltage set at 48V DC



Click Image for Larger Schematic[1]



Click Image for Larger Schematic[2]

* TYPICAL RESISTANCE RANGE FOR TRIM UP AND TRIM DOWN

RESISTANCE % / TRIM	1	2	3	5
TRIM UP	300K	150K	60K	20K
TRIM DOWN	1M	500K	250K	100K

* THESE ARE TYPICAL RESISTANCE VALUES, AS EACH INDIVIDUAL UNIT WILL VARY SLIGHTLY.
USE OF TRIM POT TO DETERMINE RESISTANCE VALUE IS RECOMMENDED.
USE 1/2 WATT MINIMUM POWER RATING RESISTOR.

Click Image for Larger Schematic[3]

GO TO APPLICATION NOTES[4]

Note: If remote sense is not used, + Sense to + Output and - Sense to - Output must be connected for proper operation. Otherwise the unit will be in shutdown mode.

For immediate engineering assistance or to place an order - **Call Toll Free 800-431-1064**

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