

PICO'S 225 Watts Series

Series XPA

Features:

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

Typical Characteristics:

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

Input-Output 2000V DC

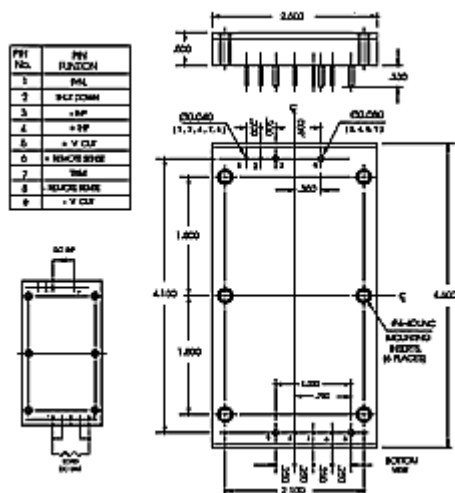
Input Baseplate 2000V DC

Output Baseplate 1000V DC

High Power Series XPA 18 - 36V DC											
Pico Part Number	Input Voltage Range	Output Voltage DC	Max. Load DC	Max. Output Power (Watts)	Eff. @ Full Load Typical (%)	Input Current Full Load Typical (A)	Output Ripple @ Full Load 1-1MHz BW mV p-p	Out Volt Tolerance (±%)*	LD Reg 10%-100% Load (±%)*	Line Regulation (±%)*	Price (US \$)
XPA3.3S	18-36	3.3	25	82.5	78	3.78	50	1.0	0.75	0.5	307.16
XPA5S	18-36	5	25	125	80	5.58	50	0.75	0.5	0.5	307.16
XPA5.2S	18-36	5.2	24	125	80	5.58	50	0.75	0.5	0.5	307.16
XPA9S	18-36	9	19.4	175**	83	7.53	50	0.5	0.5	0.5	307.16
XPA12S	18-36	12	16.7	200**	84	8.5	50	0.5	0.5	0.5	307.16
XPA15S	18-36	15	13.3	200**	85	8.4	50	0.5	0.5	0.5	307.16
XPA24S	18-36	24	9.38	225**	86	9.34	75	0.3	0.3	0.2	307.16
XPA28S	18-36	28	8.04	225**	86	9.34	75	0.3	0.3	0.2	307.16

*Measurements taken with input voltage set at 28V DC

* For Input Voltages below 21V DC, derated output power 10% per Volt



REMOTE SHUTDOWN

A 2.5V to 7V voltage level (or a Logic "1" TTL Level) applied to Pin # 2 will shut down the unit.

EXTERNAL OUTPUT TRIMMING

TRIM (7)

TRIM UP (7)

TRIM (7)

TRIM DOWN (7)

± 5% MAX.

[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	50K	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]

Note: If remote sensor is not used, + Sense to + Output and - Sense to - Output must be connected for proper operation. Otherwise the unit will shut down.

[GO TO APPLICATION NOTES](#)[4]

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

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