

**Up to  
300  
Watts**

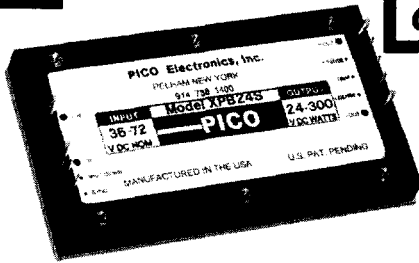
**Remote  
Sense**

# PICO's New 300 Watts Series Series XPB

**High Power**

**Fixed  
Frequency  
Operation**

**Isolated, Regulated, up to 300  
Watts**



**Application Notes  
Thermal Charts  
page 138**

**DC-DC Converters  
Wide input range 36-72 VDC  
Fully Regulated  
Parallel Operation  
Remote Sense**

**In/Out Synchronization**

**Parallel  
Operation**

## HIGH POWER SERIES XPB 36-72VDC

PICO PART NUMBER	INPUT VOLTAGE RANGE	OUTPUT VOLTAGE DC	MAX. LOAD CURRENT (A)	MAX. OUTPUT POWER (WATTS)	EFF. @ FULL LOAD TYPICAL (%)	INPUT CURRENT FULL LOAD TYPICAL (A)	OUTPUT RIPPLE @ FULL LOAD 1-1 MHz BW mv p-p	OUT VOLT TOLERANCE (±%)*	LD REG 10% - 100% LOAD (±%)*	LINE REGULATION (±%)*	PRICE 1-24
XPB3.3S	36-72	3.3	30.3	100	79	3.86	50	1.0	0.75	0.5	199.00
XPB5S	36-72	5	30	150	81	3.86	50	0.75	0.5	0.5	199.00
XPB5.2S	36-72	5.2	28.8	150	81	3.86	50	0.75	0.5	0.5	199.00
XPB9S	36-72	9	27.8	250	85	6.13	50	0.5	0.5	0.5	199.00
XPB12S	36-72	12	22.9	275	86	6.67	50	0.5	0.5	0.5	199.00
XPB15S	36-72	15	18.3	275	86	6.67	50	0.5	0.5	0.5	199.00
XPB24S	36-72	24	12.5	300	86	7.27	75	0.3	0.3	0.2	199.00
XPB28S	36-72	28	10.7	300	87	7.18	75	0.3	0.3	0.2	199.00

\*Measurements taken with input voltage set at 48VDC.

### Features:

- Input Over Voltage Protection
- Output Voltage Protection (Latched)
- Over Temp. Shutdown
- 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

PIN NO.	PIN FUNCTION
1	SWN
2	SWN DOWN
3	- INP
4	+ INP
5	+ V OUF
6	+ REMOTE SENSE
7	TRM
8	- REMOTE SENSE
9	- V OUF

Weight 210 Grams Typ

#### REMOTE SHUTDOWN

FOR FULL BASEPLATE THE VOLTAGE AT PIN 8 MUST BE REDUCED TO 0.1V UNDER NO LOAD.

#### EXTERNAL OUTPUT TRIMMING ± 5% MAX.

RESISTANCE %	1	2	3	5
TRM UP	300K	150K	50K	20K
TRM DOWN	1M	500K	250K	100K

\* THERE ARE TYPICAL RESISTANCE VALUES AT EACH NOMINAL UNIT WILL VARY SLIGHTLY.  
USE OF TRM POT TO DETERMINE RESISTANCE VALUE IS RECOMMENDED.  
USE 1/2 WATT MINIMUM POWER RATING RESISTOR.

### 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 pg. 138
- Test Condition: +25°C (Room Temp.)
- Isolation:
  - Input-Output 2000V DC
  - Input Baseplate 2000V DC
  - Output Baseplate 1000V DC

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 shut down mode.

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

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