

## SERIES PD SINGLE - 100 WATTS - INPUT 200-380 VDC

PICO PART NUMBER	INPUT VOLTAGE RANGE (VDC)	OUTPUT VOLTAGE DC	MAX. OUTPUT POWER * (W)	EFF@ FULL LOAD TYPICAL ** (%)	MAX LOAD REGULATION (%) **		MAX LINE REGULATION AT FULL LOAD (%)		OUTPUT VOLTAGE RIPPLE FULL LOAD 1-1 MHz BW (MVP-P)	OUTPUT VOLTAGE TOLERANCE (±%)**	PRICE
					10-50%	50-100%	200-300V	300-380V			
PD3.3S	200-380	3.3	50	76	1.50	1.50	1.25	1.25	50	2.0	104.00
PD5S	200-380	5	75	78	1.25	1.25	1.00	1.00	50	1.5	104.00
PD5.2S	200-380	5.2	75	78	1.25	1.25	1.00	1.00	50	1.5	104.00
PD8S	200-380	8	100	84	1.25	1.25	1.00	1.00	50	1.0	104.00
PD12S	200-380	12	100	85	1.00	1.00	0.75	0.75	50	1.0	104.00
PD15S	200-380	15	100	86	1.00	1.00	0.75	0.75	50	1.0	104.00
PD24S	200-380	24	100	87	0.75	0.75	0.50	0.50	50	0.5	104.00
PD28S	200-380	28	100	87	0.50	0.50	0.50	0.50	50	0.5	104.00
PD48S	200-380	48	100	88	0.50	0.50	0.20	0.20	50	0.5	104.00
PD100S	200-380	100	100	88	0.50	0.50	0.20	0.20	50	0.5	156.00

10% Minimum load required at all times  
 \*Using proper thermal management maximum temp of + 85°C (case) \*\*Reading taken at nominal 300 VDC input

## SERIES PD DUAL - 100 WATTS - INPUT 200-380 VDC

PICO PART NUMBER	INPUT VOLTAGE RANGE (VDC)	OUTPUT VOLTAGE DC	MAX. OUTPUT POWER * (W)	EFF@ FULL LOAD TYPICAL ** (%)	MAX LOAD REGULATION (%) **		MAX LINE REGULATION AT FULL LOAD (%)		OUTPUT VOLTAGE RIPPLE FULL LOAD 1-1 MHz BW (MVP-P)	OUTPUT VOLTAGE TOLERANCE (±%)**	PRICE
					10-50%	50-100%	200-300V	300-380V			
PD5D	200-380	5	37.5/37.5	78	1.25	1.25	1.00	1.00	50	1.5	149.00
PD9D	200-380	9	50/50	84	1.25	1.25	1.00	1.00	50	1.0	149.00
PD12D	200-380	12	50/50	85	1.00	1.00	0.75	0.75	50	1.0	149.00
PD15D	200-380	15	50/50	86	1.00	1.00	0.75	0.75	50	1.0	149.00
PD24D	200-380	24	50/50	87	0.75	0.75	0.50	0.50	50	0.5	149.00
PD28D	200-380	28	50/50	87	0.50	0.50	0.50	0.50	50	0.5	149.00
PD48D	200-380	48	50/50	88	0.50	0.50	0.20	0.20	50	0.5	149.00

10% Minimum load required at all times  
 \*Using proper thermal management maximum temp of + 85°C (case) \*\*Reading taken at nominal 300 VDC input

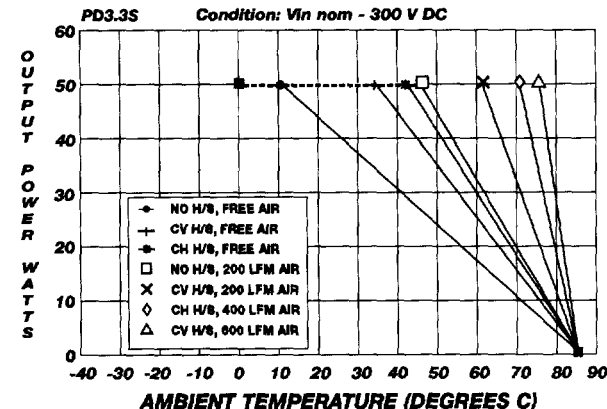
## †HIGH VOLTAGE SERIES PD TO 350 VDC - 150 WATTS - INPUT 200-380 VDC

PICO PART NUMBER	INPUT VOLTAGE RANGE (VDC)	OUTPUT VOLTAGE DC	MAX. OUTPUT POWER * (W)	EFF@ FULL LOAD TYPICAL ** (%)	MAX LOAD REGULATION (%) **		MAX LINE REGULATION AT FULL LOAD (%)		OUTPUT VOLTAGE RIPPLE FULL LOAD 1-1 MHz BW (%)	OUTPUT VOLTAGE TOLERANCE (±%)**	PRICE
					10-50%	50-100%	200-300V	300-380V			
PD125S	200-380	125	150	85	0.5	0.5	0.3	0.3	1	0.5	156.00
PD150S	200-380	150	150	85	0.5	0.5	0.3	0.3	1	0.5	156.00
PD175S	200-380	175	150	85	0.5	0.5	0.3	0.3	1	0.5	156.00
PD200S	200-380	200	150	85	0.5	0.5	0.3	0.3	1	0.5	208.00
PD225S	200-380	225	125	85	0.5	0.5	0.3	0.3	1	0.5	208.00
PD250S	200-380	250	125	85	0.5	0.5	0.3	0.3	1	0.5	208.00
PD275S	200-380	275	100	85	0.5	0.5	0.3	0.3	1	0.5	208.00
PD300S	200-380	300	100	85	0.5	0.5	0.3	0.3	1	0.5	260.00
PD325S	200-380	325	100	85	0.5	0.5	0.3	0.3	1	0.5	260.00
PD350S	200-380	350	100	85	0.5	0.5	0.3	0.3	1	0.5	260.00

10% Minimum load required at all times  
 \*Using proper thermal management maximum temp of + 85°C (case) \*\*Reading taken at nominal 300 VDC input

†UL approval recognition pending

Full thermal analysis can be determined using application notes on page 138. By using the efficiency and thermal resistance of your desired unit to the formula you can complete your evaluation. The curves below were generated for Part #PD3.3S using Application Notes. Please consult factory with any questions.



Application Notes  
 page 138  
 Mechanical  
 Configuration  
 page 141

## SERIES PD 3.3 to 350 VDC Outputs Available Isolated Regulated 100 Watts DC-DC Converters Wide Input Range 200-380 V DC Short Circuit Protected ‡ Parallel Operation

The new PICO PD Series of high power DC-DC Converters allow a wide input voltage of 200-380 VDC, while maintaining a regulated output. They are fully safeguarded for over voltage, over temperature and continuous short circuit protection. The availability of Dual Isolated Outputs, small size, and the capability of parallel operations as standard features should reduce your design and component costs, while the fixed frequency operation helps parallel connections for higher power requirements. This high-density unit is assembled in the USA with PICO quality and component selection, allowing it to meet the most stringent commercial requirements.

‡Parallel Operation  
 Consult factory to optimize for your application

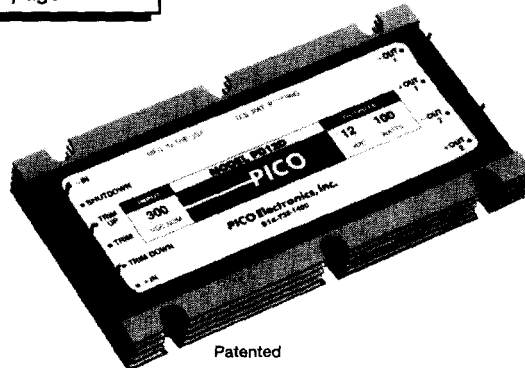
### FEATURES:

- Dual isolated outputs
- Short circuit protection
- Thermal, over temp. shutdown
- Line regulation
- Load regulation
- No external components required
- Hi density, hi efficiency design
- Remote shutdown
- Trim capabilities
- Fixed frequency-100 KHz

### TYPICAL CHARACTERISTICS:

- Frequency: 100 KHz
- Base plate: Max. +85° C
- Operating Temp.: See thermal chart, Min. 0° C ambient, Max. + 85° C base plate temp.
- Test conditions: 25° C ambient
- Isolation Base Input: 2121 VDC
- Isolation Input output: 4242 VDC
- Isolation Output to Base: 1000 VDC
- Storage Temp.: - 55° C to +105° C

For All Variations Call Factory



Patented