



5-6 WATT 4:1 WIDE INPUT RANGE DC/DC POWER MODULES

(Rectangle Package)

FEATURES

- 5.0 to 6.0 Watt Isolated Output
- 4:1 Wide Input Range
- High Conversion Efficiency
- Continuous Short Circuit Protection

GENERAL SPECIFICATIONS

- Efficiency Per Table
- Switching Frequency 200KHz Min.
- Isolation Voltage: 3K Vdc Min.
- Operating Temperature -25 to +75°C
Derate Linearly to no load @ 100°C max.
- Case Material:
3K Vdc.....Non-Conductive Black Plastic
1.5K VdcBlack coated copper
with non-conductive base

INPUT SPECIFICATIONS

- Voltage 24, 48 Vdc
- Voltage Range 9-36 & 18-72Vdc
- Input Filter Pi Type

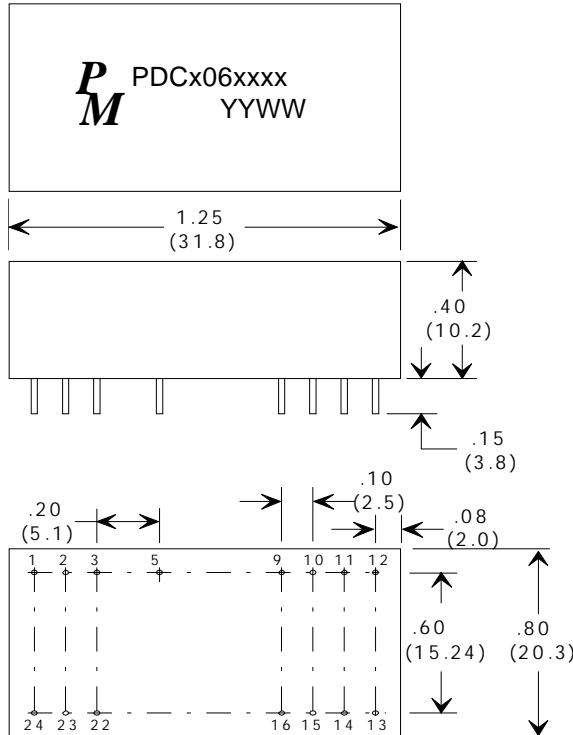
OUTPUT SPECIFICATIONS

- Voltage Per Table
- Initial Voltage Accuracy ±1% typ
- Voltage Stability ±0.05% max
- Ripple&Noise 100/150mVp-p
- Load Regulation (10 to 100% Load)
Single Output Units: ±0.5%
Dual Output Units: ±1.0%
- Line Regulation ±0.5% typ.
- Temp Coefficient ±0.05% /°C

PACKAGE

PIN ASSIGNMENTS

PHYSICAL DIMENSIONS DIMENSIONS IN inches (mm)



| 1.5K VDC & 3K VDC | | |
|-------------------|---------------|--------------|
| PIN # | SINGLE OUTPUT | DUAL OUTPUTS |
| 1 | NP | NP |
| 2 | -INPUT | -INPUT |
| 3 | -INPUT | -INPUT |
| 5 | NP | NP |
| 9 | NC | COMMON |
| 10 | NC | NC |
| 11 | NC | -OUTPUT |
| 12 | NP | NP |
| 13 | NP | NP |
| 14 | +OUTPUT | +OUTPUT |
| 15 | NC | NC |
| 16 | -OUTPUT | COMMON |
| 22 | +INPUT | +INPUT |
| 23 | +INPUT | +INPUT |
| 24 | NP | NP |

*NP-NO PIN
*NC-NO CONNECTION WITH PIN

Note: Pin size is 0.02" Inch (0.5mm) DIA or 0.02x0.014 Inch

Specifications subject to change without notice.

PDCx0606x 02/01

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ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -25°C TO +75°C

| PART NUMBER | INPUT VOLTAGE | | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (mAdc) | INPUT CURRENT | | TYPICAL EFFICIENCY |
|-------------|---------------|-------|----------------------|-----------------------|---------------|--------------|--------------------|
| | NOMINAL | RANGE | | | NO LOAD mA | FULL LOAD mA | |
| PDCS06061Q | 24 | 9-36 | 5 | 1000 | 15 | 267 | 78 % |
| PDCS06062Q | 24 | 9-36 | 12 | 470 | 15 | 287 | 82 % |
| PDCS06063Q | 24 | 9-36 | 15 | 400 | 15 | 305 | 82 % |
| PDCD06061Q | 24 | 9-36 | ±5 | ±500 | 25 | 267 | 78 % |
| PDCD06062Q | 24 | 9-36 | ±12 | ±230 | 25 | 281 | 82 % |
| PDCD06063Q | 24 | 9-36 | ±15 | ±190 | 25 | 290 | 82 % |
| PDCS06071Q | 48 | 18-72 | 5 | 1000 | 7.5 | 130 | 80 % |
| PDCS06072Q | 48 | 18-72 | 12 | 470 | 7.5 | 143 | 82 % |
| PDCS06073Q | 48 | 18-72 | 15 | 400 | 7.5 | 153 | 82 % |
| PDCD06071Q | 48 | 18-72 | ±5 | ±500 | 12 | 134 | 78 % |
| PDCD06072Q | 48 | 18-72 | ±12 | ±230 | 12 | 141 | 82 % |
| PDCD06073Q | 48 | 18-72 | ±15 | ±190 | 12 | 145 | 82 % |

NOTE:

PDCx06xxxQ : FOR STANDARD PART WITH ISOLATION = 3K VDC

PDCx06xxxK : FOR PART WITH ISOLATION = 1.5K VDC