



# 3.0 WATT 2:1 WIDE INPUT RANGE DC/DC POWER MODULES

## Extended Temperature (Rectangle Package)

### FEATURES

- ① 3.0 Watt Isolated Output
- ② 2:1 Wide Input Range
- ③ Continuous Short Circuit Protection
- ④ Extended Temperature

### GENERAL SPECIFICATIONS

- Efficiency ..... Per Table
- Operating Frequency ..... 50KHz Min.
- Isolation Voltage: ..... 500 Vdc Min.
- Operating Temperature ..... -40 to +80°C
- Efficiency ..... up to 80%

### INPUT SPECIFICATIONS

- Voltage ..... 5, 12, 24, 48 Vdc
- Voltage Range.. 4.5-9, 9-18, 18-36, 36-72Vdc
- Input Filter ..... Pi Type

### OUTPUT SPECIFICATIONS

- Voltage ..... Per Table
- Voltage Stability ..... ±0.05% max
- Ripple & Noise Vout = 5-9V..... 100mV p-p  
Vout = 12-15V..... 1% Of Vout
- Load Regulation ..... ±0.2% typ.
- Line Regulation ..... ±0.1% typ.

### ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +80°C

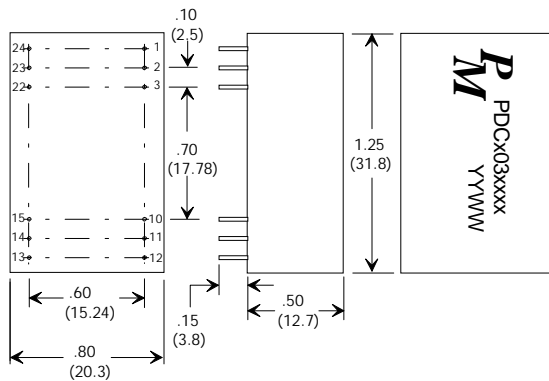
PART NUMBER (SINGLE OUTPUT)	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA max.)	%EFF
PDCS03051	5	5	600	65
PDCS03052	5	9	333	70
PDCS03053	5	12	250	72
PDCS03054	5	15	200	73
PDCS03056	12	5	600	66
PDCS03057	12	9	333	75
PDCS03058	12	12	250	77
PDCS03059	12	15	200	75
PDCS03061	24	5	600	78
PDCS03062	24	9	333	79
PDCS03063	24	12	250	80
PDCS03064	24	15	200	80
PDCS03066	48	5	600	72
PDCS03067	48	9	333	75
PDCS03068	48	12	250	76
PDCS03069	48	15	200	80

PART NUMBER (DUAL OUTPUT)	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA max.)	%EFF
PDCD03051	5	±5	±300	65
PDCD03052	5	±9	±167	70
PDCD03053	5	±12	±125	71
PDCD03054	5	±15	±100	72
PDCD03056	12	±5	±300	65
PDCD03057	12	±9	±167	74
PDCD03058	12	±12	±125	71
PDCD03059	12	±15	±100	75
PDCD03061	24	±5	±300	80
PDCD03062	24	±9	±167	75
PDCD03063	24	±12	±125	79
PDCD03064	24	±15	±100	80
PDCD03066	48	±5	±300	77
PDCD03067	48	±9	±167	75
PDCD03068	48	±12	±125	74
PDCD03069	48	±15	±100	76

### PACKAGE

### PHYSICAL DIMENSIONS DIMENSIONS IN inches (mm)

### PIN ASSIGNMENTS



500 VDC		
PIN #	SINGLE OUTPUT	DUAL OUTPUTS
1	+INPUT	+INPUT
2	NP	- OUTPUT
3	NP	COMMON
10	-OUTPUT	COMMON
11	+OUTPUT	+OUTPUT
12	- INPUT	- INPUT
13	- INPUT	- INPUT
14	+OUTPUT	+OUTPUT
15	-OUTPUT	COMMON
22	NP	COMMON
23	NP	-OUTPUT
24	+INPUT	+INPUT

Specifications subject to change without notice.

\*NP-NO PIN

\*NC-NO CONNECTION WITH PIN

PDCx0305x 12/00