

# DC/DC CONVERTER

REGULAR  
3WATT



PD30...D-MDR

## KEY FEATURES

- \* High I/O isolation voltage
- \* Single and dual outputs
- \* Input filter
- \* 50KHz Min. switching frequency
- \* Compatible to other manufacturers' products

## APPLICATIONS

- \* Telecommunications / Lan
- \* Industrial machines

## ELECTRICAL SPECIFICATIONS

### INPUT

- \* Input range ----- 4.5 ~ 5.5 VDC, 5 VDC nominal  
10.8 ~ 13.2 VDC, 12 VDC nominal  
21.6 ~ 26.4 VDC, 24 VDC nominal  
43.2 ~ 52.8 VDC, 48 VDC nominal
- \* Input filter ----- Pi-network

### OUTPUT

- \* Output voltage accuracy --- +/- 2% Max.
- \* Line regulation (HL - LL) --- +/-0.5% Max.
- \* Load regulation (1/10L - FL) --- +/-0.5% Max.
- \* Ripple and noise, 20MHz bandwidth --- 100mVp-p Max.
- \* Temperature coefficient --- +/-0.03%/°C
- \* Short circuit protection --- Current limit protection

## GENERAL

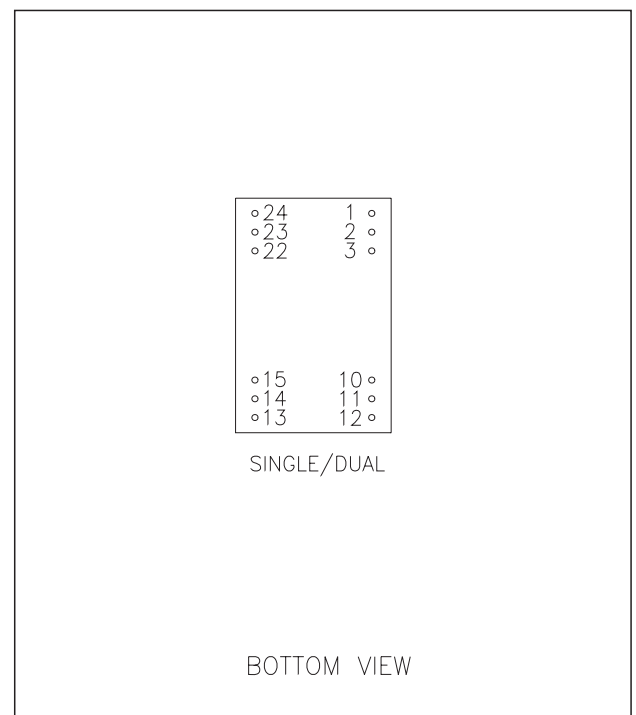
- \* Operating frequency ----- 50KHz Min.
- \* I/O isolation voltage ----- 1000 VDC
- \* I/O resistance ----- 1G ohms Min.
- \* Efficiency ----- 58% Min.
- \* Isolation Capacitance ----- 80pF Max

## ENVIRONMENTAL

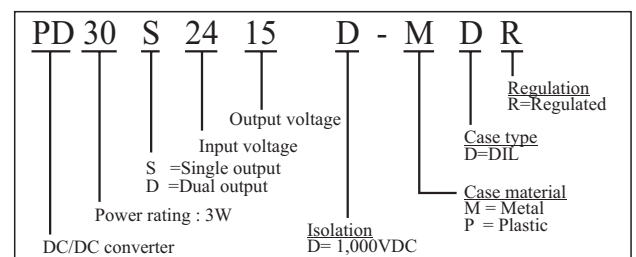
- \* Operating temperature range ----- -25 ~ +70°C
- \* Storage temperature range ----- -40 ~ +100°C
- \* Cooling ----- Free air convection

All specifications typical at nominal line, full load, and 25°C unless otherwise noted.

## PIN ASSIGNMENT



## ORDERING INFORMATION



## INPUT / OUTPUT SPECIFICATION

TYPE PD	Input Voltage(VDC)	Input Current (mA)		Output Voltage(VDC)	Output Current (mA)
		No load	Full load		
PD30S0505D-MDR	4.5 ~ 5.5	50	960	5	600
PD30S0509D-MDR	4.5 ~ 5.5	50	950	9	330
PD30S0512D-MDR	4.5 ~ 5.5	50	930	12	250
PD30S0515D-MDR	4.5 ~ 5.5	50	940	15	200
PD30D0505D-MDR	4.5 ~ 5.5	50	970	± 5	± 300
PD30D0512D-MDR	4.5 ~ 5.5	50	930	±12	± 125
PD30D0515D-MDR	4.5 ~ 5.5	50	940	±15	± 100
PD30S1205D-MDR	10.8 ~ 13.2	20	410	5	600
PD30S1209D-MDR	10.8 ~ 13.2	20	400	9	330
PD30S1212D-MDR	10.8 ~ 13.2	20	380	12	250
PD30S1215D-MDR	10.8 ~ 13.2	20	360	15	200
PD30D1205D-MDR	10.8 ~ 13.2	20	420	± 5	± 300
PD30D1212D-MDR	10.8 ~ 13.2	20	390	±12	± 125
PD30D1215D-MDR	10.8 ~ 13.2	20	360	±15	± 100
PD30S2405D-MDR	21.6 ~ 26.4	10	200	5	600
PD30S2409D-MDR	21.6 ~ 26.4	10	190	9	330
PD30S2412D-MDR	21.6 ~ 26.4	10	180	12	250
PD30S2415D-MDR	21.6 ~ 26.4	10	180	15	200
PD30D2405D-MDR	21.6 ~ 26.4	10	210	± 5	± 300
PD30D2412D-MDR	21.6 ~ 26.4	10	180	±12	± 125
PD30D2415D-MDR	21.6 ~ 26.4	10	180	±15	± 100
PD30S4805D-MDR	43.2 ~ 52.8	6	100	5	600
PD30S4809D-MDR	43.2 ~ 52.8	6	95	9	330
PD30S4812D-MDR	43.2 ~ 52.8	6	90	12	250
PD30S4815D-MDR	43.2 ~ 52.8	6	90	15	200
PD30D4805D-MDR	43.2 ~ 52.8	6	100	± 5	± 300
PD30D4812D-MDR	43.2 ~ 52.8	6	90	±12	± 125
PD30D4815D-MDR	43.2 ~ 52.8	6	90	±15	± 100

NOTES: \* Specifications are for convection rating unless otherwise stated.  
 \* Detailed engineering specification of each model is available for inquiry.  
 \* Specifications subject to change without notice.

## MECHANICAL DRAWING

