

PDS30/40 Series

30W/40W Dual Outputs DC/DC Converter

Features

- Nonstandard footprint:
2.80"x1.95"x0.82"
(71.0 x 49.5 x 13.2mm³)
- Typical efficiency: 83%
2:1 (4:1)wide input voltage range:
36-75V(18-75V optional)
- Dual outputs: 5V/12V, 5V/8.4V;
Single output(optional):5.5V,12V
- Trim function; Remote control
- Input under-voltage shutdown
- Output over-current , short-circuit protection
- Over-temperature protection
- No minimum load requirement

Environmental

- Operating ambient temperature range:
-40°C to 85°C
- Operating case temperature range:
-40°C to 100°C
- Storage temperature range:
-55°C to 125°C
- Over-temperature protection:
120°C typical
- Temperature coefficient:
$\lt; \pm 0.02\%/^{\circ}\text{C}$
- MTBF:
>2 million hrs

Electrical Specifications

Input

Input range:	36-75V;18-75V
Input under-voltage shutdown:	25-28V;15-17V

Output

Voltage setpoint accuracy:	$\pm 5.0\%V_o$ max
Voltage adjust:	90% to 110% V_o
Line regulation:	0.5% V_o max
Load regulation:	1.5% V_o max
Over-current protection:	>110% I_o , hiccup
Short-circuit protection:	Continuous, auto-recovery
Ripple and noise:	<100mVpp
Transient response:	5% V_o max recovery<250us max (25%~50%~25% I_{omax}) di/dt: 1A/10uS

Control

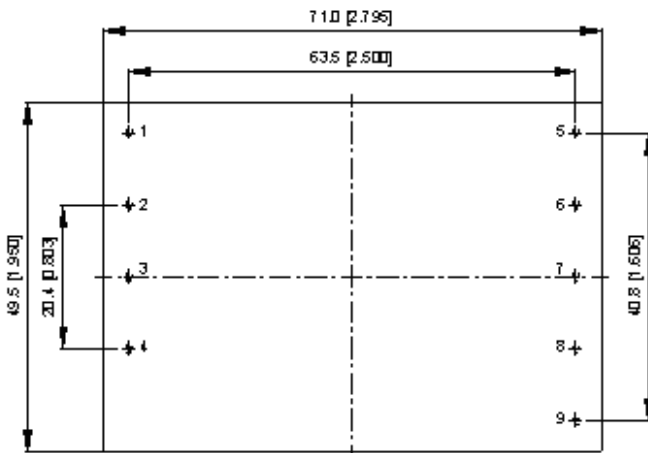
Control voltage:	
Positive logic	
High =on	3.5 to 75Vdc
Low=off	-0.7 to 1.5Vdc
Negative logic	
Low =on	-0.7 to 1.5Vdc
High=off	3.5 to 75Vdc
Control current::	2mA max



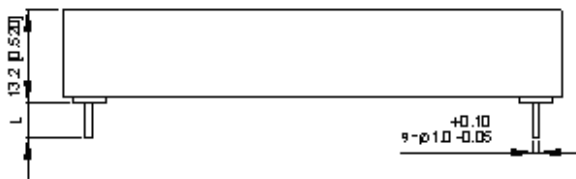
Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	5V/12V	4A/0.83A	83%	PDS30-48D0512
48V	5V/12V	4A/0.83A	83%	PDS30-48D0512-W
48V	5V/8.4V	2.5A/2A	83%	PDS30-48D05084
48V	5V/8.4V	2.5A/2A	83%	PDS30-48D05084-W
48V	5.5V	5.5A	85%	PDS30-48S055
48V	5.5V	5.5A	85%	PDS30-48S055-W
48V	12V	2.5A	83%	PDS30-48S12-W
48V	5V/8.4V	4A/2.5A	84%	PDS40-48D054A

Dimensions



Top View



TOLERANCES: X.Xmm=+/-0.5mm
X.XXmm=+/-0.25mm

Unit:mm[inch]

Pin Assignments

1	CNT	5	Trim
2	NC	6	+Vo1 or NC
3	+Vin	7	COM or NC
4	-Vin	8	+Vo2
		9	COM

Note: single output only use pin5,pin8,pin9