

PDS125-48D0512

125 Watt Dual Outputs

Features

- Industry standard footprint:
5" x 3.5" x 0.68" (127 x 88.9 x 17.3mm³)
- Typical efficiency: 82%
- Wide input voltage: 36-75V
- Dual outputs: 5V/12V
- Remote control
- Trim and sense function
- Input under-voltage shutdown
- Output over-current protection
- Output over-voltage protection
- Output short-circuit protection
- Over-temperature protection
- No minimum load requirement

Environmental

- Operating ambient temperature range:
-40 to 55
- Operating case temperature range:
-40 to 100
- Storage temperature:
-55 to 125
- Over-temperature protection:
>110 typical
- Temp.coefficient:
<±0.02%/
- MTBF:
>0.8 million hrs

Electrical Specifications

Input

Input range: 36-75Vdc
Input under-voltage shutdown: 32.9-35Vdc

Output

Voltage setpoint accuracy:
±1.0%V_{o1} max. for 5Vout
±1.0%V_{o2} max. for 12Vout

Voltage adjust: 90% to 110% V_o (for 5Vout)

Line regulation:
0.2%V_{o1} max. for 5Vout
1.0%V_{o2} max. for 12Vout

Load regulation:
0.5%V_{o1} max. for 5Vout
1.0% V_{o2} max. for 12Vout

Short-circuit protection: continuous, auto-recovery

Over-current protection: >110%I_o, auto-recovery

Over-voltage protection: >110%V_o, latch off

Ripple and noise:
<100mVpp max. for 5Vout
<150mVpp max. for 12Vout

Transient response: recovery <200uS max.
80mV max. for 5Vout
60mV max. for 12Vout
(25% step load change from 50% I_o)
di/dt: 1A/10uS

Control

Control voltage:

Positive logic
High =on 3.5 to 10Vdc
Low=off -0.7 to 1.5Vdc

Negative logic
Low =on -0.7 to 1.5Vdc
High=off 3.5 to 10Vdc

Control current: 2mA max.

