

# PDM40-48S Series

## 40 Watt Single Output

### Features

- Industry standard footprint:  
2" x 1.6" x 0.38" (50.8 x 40.6 x 9.66mm<sup>3</sup>)
- Typical efficiency: 86% (3.3Vout)
- Wide input voltage: 36-75V
- Single output: 3.3V
- Remote control
- Trim 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 board temperature range:  
-40 to 100
- Storage temperature:  
-55 to 125
- Over-temperature protection:  
>110 typical
- Temp.coefficient:  
<±0.02%/
- MTBF:  
>2 million hrs

### Electrical Specifications

#### Input

Input range: 36-75Vdc  
Input under-voltage shutdown: 32-35Vdc

#### Output

Voltage setpoint accuracy: ±1.0%V<sub>o</sub> max  
Voltage adjust: 90% to 110% V<sub>o</sub>  
Line regulation: 0.2%V<sub>o</sub> max.  
Load regulation: 0.5%V<sub>o</sub> max.  
Short-circuit protection: continuous, auto-recovery  
Over-current protection: >120%I<sub>o</sub>, auto-recovery  
Over-voltage protection: >120%V<sub>o</sub>, auto-recovery  
Ripple and noise: <120mVpp max.  
Transient response: 120mV max.(for 3.3Vout)  
recovery <200uS max.  
(25% step load change from 50% I<sub>o</sub>)  
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.

