

# PDG Series

## 30W/40W Single Output DC/DC Converter

### Features

- Industry standard footprint:  
2"x2"x0.38"(50.80 x 50.80 x 9.66mm<sup>3</sup>)
- Typical efficiency: 87%
- 2:1 wide input voltage range: 36-75V
- Single output: 3.3V, 5V
- Trim function; Remote control
- Input under-voltage shutdown
- Output over-current ,over-voltage,  
short-circuit protection
- Over-temperature protection
- No minimum load requirement

### Environmental

- Operating ambient temperature range:  
-40°C to 55°C
- Operating board temperature range:  
-40°C to 100°C
- Storage temperature range:  
-55°C to 125°C
- Over-temperature protection:  
>110°C typical
- Temperature coefficient:  
<±0.02%/°C
- MTBF:  
>2 million hrs

### Electrical Specifications

#### Input

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

#### Output

Voltage setpoint accuracy:	±1.0%Vo max
Voltage adjust:	90% to 110%Vo
Line regulation:	0.2%Vo max
Load regulation:	0.5%Vo max
Over-current protection:	>120%Io, auto-recovery
Over-voltage protection:	>120%Vo, auto-recovery
Short-circuit protection:	Continuous, auto-recovery
Ripple and noise:	<75mVpp
Transient response:	120mV max(for3.3Vout) 150mV max(for5Vout) recovery<200us max (25%~50%~25% Iomax) 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

