



# WDC15 Series

## 15 Watt Single Output DC/DC Converter

### Features

- Approved to IEC/EN60950, UL60950 safety standards
- Industry standard footprint:  
1.65"x1.46"x0.4"(41.90x37.10x10.16mm<sup>3</sup>)
- Typical efficiency: 82%, for 5Vout
- 2:1 wide input voltage range: 36-75V
- Single output: 3.3V, 5V, 12V, 15V
- Remote control
- Input under-voltage shutdown
- No minimum load requirement
- Output over-current; short-circuit protection (not commended for Vout 12V, 15V)
- Isolation voltage: 1500Vdc, 1min (Input-Output; Input-Case; Output-Case)

### 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
- Temperature coefficient:  
<math>\pm 0.02\%/^{\circ}\text{C}</math>
- MTBF:  
>2 million hrs

### Electrical Specifications

#### Input

Input range:	36-75V
Input under-voltage shutdown:	32-34V

#### Output

Voltage setpoint accuracy:	$\pm 1.0\%V_o$ max
Voltage adjust:	None
Line regulation:	10mV max
Load regulation:	25mV max
Over-current protection:	>120%I <sub>o</sub> , auto-recovery
Short-circuit protection:	Continuous, auto-recovery
Ripple and noise:	<math>< 60\text{mVpp}</math> max.
Transient response:	200mV max Recovery <math>< 400\mu\text{s}</math> max (25%~50%~25% I <sub>o</sub> max)
	di/dt: 1A/10 $\mu\text{s}$

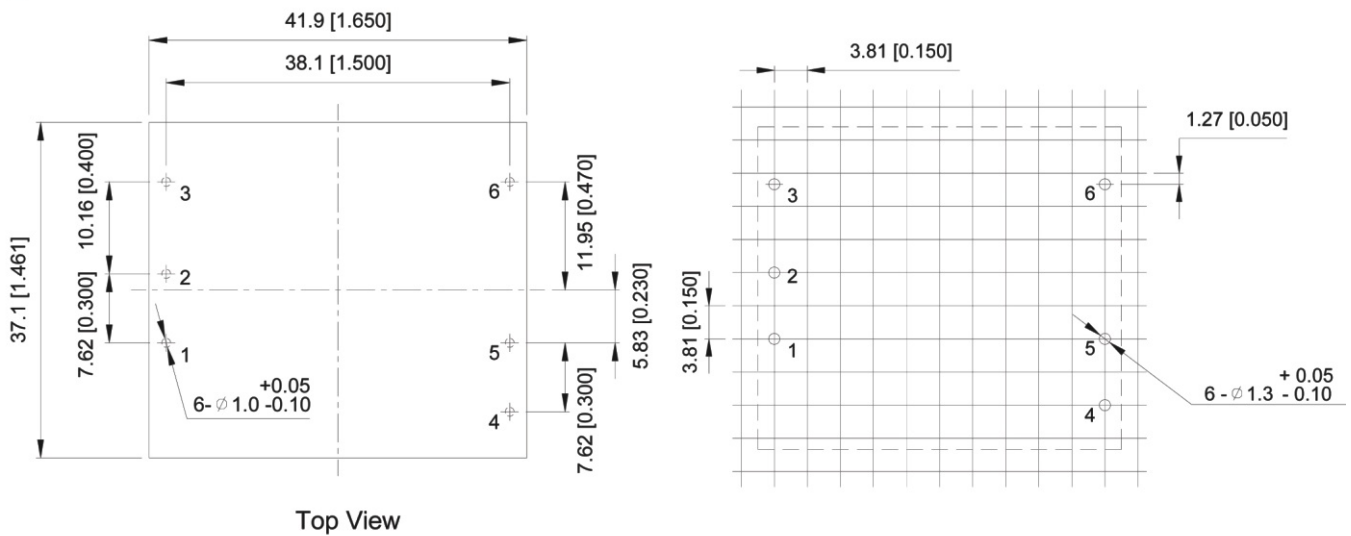
#### Control

Control voltage:	
Positive logic	
High =on	3.5 to 12Vdc
Low=off	-0.7 to 0.6Vdc
Control current:	2mA max

## Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
48V	3.3V	3.5A	78%	WDC15-48S3V3
48V	5V	3A	82%	WDC15-48S05
48V	12V	1.25A	84%	WDC15-48S12
48V	15V	1A	85%	WDC15-48S15

## Dimensions



TOLERANCES: X.Xmm= $\pm$ 0.5mm  
X.XXmm= $\pm$ 0.25mm

Unit:mm[inch]

## Pin Assignments

1	+Vin
2	-Vin
3	CNT
4	-Vo
5	+Vo
6	NC

Pin Length: 5.8mm