



# PST-DCZ1205

**Electrical Specifications** 

$12 \text{ VDC} \pm 0.1 \text{ VDC}$
13.5 VDC to 34 VDC
5.0A
± 0.5%
± 1.0%
7 VDC (1 minute duration)
25mV p-p
90mV p-p
- 40C to 65C (- 40F to 149F)
- 40C to 90C (- 40F to 194F)
77% 24VDC input, 1.0A load
88% 12VDC input, 1.0A load
69,000hrs minimum, See Note 5
128,000hrs minimum, See Note 5

# Protection

Overload protection	If there is a short circuit connection or other overload connection is sensed, the unit will automatically limit the output current and, depending on severity, will go into a hiccup mode. See Note 2.
Over temperature protection	If an extreme over temperature condition occurs the unit will shut down until the temperature is reduced. See Note 3.
Reverse polarity protection	If an in-line 5A fast acting fuse is connected as shown in Figure 2, then the unit will be protected from reverse polarity connection. If the fuse is used and there is a reverse polarity connection, the fuse will blow and protect the unit from damage. See Note 4.

## **Physical Specifications**

Weight	108 gr	108 grams or about 3.8 ounces	
Dimensions	Length	120mm (4.73 inches)	
	Width	55mm (2.17 inches)	
	Height	33mm (1.30 inches)	
Connections	Input connector	2 position screw terminal block	
	Output connector	2 position screw terminal block	

### Note 1:

Extended operation at voltages less than 8.0 VDC is not recommended although the unit will work at voltages lower than this with reduced load regulation. With voltages lower than 7.0 VDC, load regulation is rapidly reduced.

### Note 2:

If an overload is sensed, the unit will automatically limit the output current and reduce the output voltage. If the output voltage is excessively reduced to limit current, the unit will go into a hiccup mode and wait until the overload is removed to restore power. This dual-mode overload protection system allows the unit to be protected from continuous short circuit connection and other overload conditions.

#### Note 3

Extended operation at temperatures above 65C can damage the unit and will void the warranty.

#### Note 4:

If the in-line 5A fast-acting fuse is not connected as shown in Figure 2, a reverse polarity connection can damage the unit and will void the warranty.

#### Note 5:

MTBF calculations are made at maximum rated temperature and maximum rated input voltage. MTBF will be increased with reduced temperature or reduced input voltage.

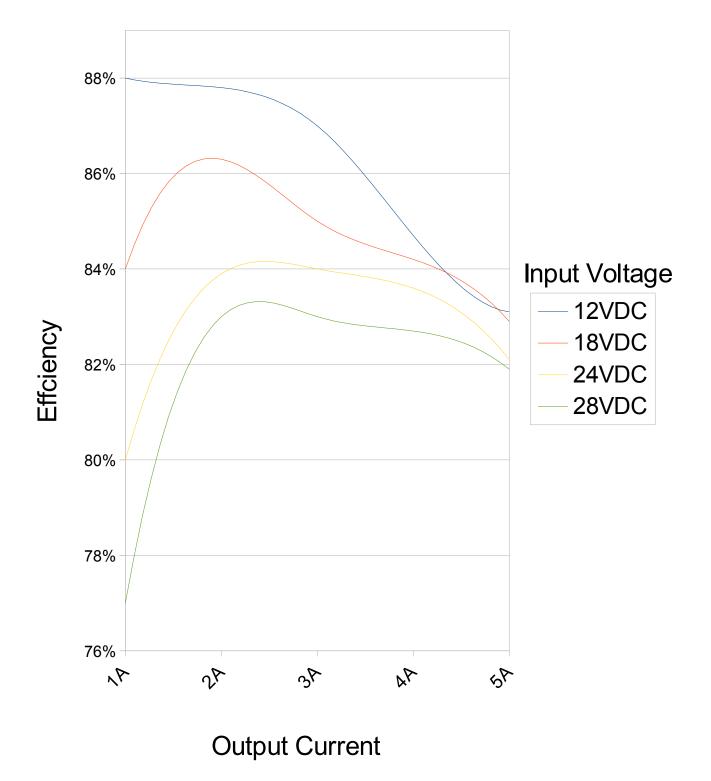


Figure 1

### Typical efficiency curves

Figure 2
Connection diagram
Warning: For full warranty protection please use a 5A fast-acting fuse as shown.
See Note 4.

