

## 3A LDO Power Regulator board

# PS-Rxx-3A



- Output Current:**  
3 Amps
- Output Voltage:**  
+3.3V to +14V (DC)
- Input Voltage:**  
±15V (DC)
- Dropout Voltage:**  
0.6V @ 3A
- Quiescent Current:**  
50µA (operating)  
16µA (shutdown)
- Shutdown Control**
- Reverse Current Protection**

The PS-Rxx-3A power regulator board features the LT1529 3A DC-DC low dropout regulator with micropower quiescent current and shutdown. The board is capable of supplying 3A output with a low dropout voltage of 0.6V. The board can be connected to input voltages higher or lower than the desired output (including negative voltages) without reverse current flow. This makes the PS-Rxx-3A ideal for backup power applications where the output is held steady at the desired voltage when the input is at ground or reversed.

The PS-Rxx-3A is available in three configurations: +3.3V fixed output, +5.0V fixed output, or an adjustable version between +3.3V to +14V. The adjustable version requires the user to solder appropriate resistors based on the desired output voltage. Please see the user manual for further details.

The board features standard screw-terminals (18AWG) for easy integration with any input source and device which requires regulated power. The shutdown pin can be controlled either via the output screw-terminal or a 0.1" header.

- Form Factor:**  
1.62" x 1.00"  
(41.15mm x 25.4mm)
- Operating Temp:**  
-45°C to +125°C
- Operating Humidity:**  
5% to 95%  
non-condensing
- Storage Temp:**  
-65°C to +150°C

### External Connectors:

Input .....TB1  
Output/shutdown..... TB2  
shutdown (0.1" term).....W1

### LEDs:

Output enabled .....D1

### Ordering Information

<b>PS-R3V3-3A</b>	.....	+3.3V, 3A fixed output
<b>PS-R5V0-3A</b>	.....	+5.0V, 3A fixed output
<b>PS-RADJ-3A</b>	.....	+3.3V to +14V, 3A adjustable