

Precision Designed LED Lighting[™]

Multi-Purpose Electronic Load Regulator



Onstate PEELR is a multi-purpose electronic load regulator for power loading. It could be setup as a basic power switch, battery discharge load, dummy load or programmable (uC required) electronic load. The dual channel design allows for switchable low or high current loading at high accuracy and power. 6 individual opamps control individual N-Channel MOSFETs improves current load sharing and accuracy. Extra safety features include under and over-voltage sensing and thermister temperature sensing.

Features:	Applications:
- Up to 60V DC input	- High-power, high-current electronic load
- 0805 SMD or larger components	- LED current driver
- Separate power input for control circuit	- Battery discharge testing
- 6 op-amp CC load circuits	- PWM dimmer/controller
- Adjustable controls inputs, CC, OV, UV	- Solar/wind/hydro load dump/regulator
- Easy-to-use integrated design	- DC motor speed controller
- Dual output and control	- HHO electrolysis PWM controller
- High-power TO-247 N-CH MOSFETs (60A)	- High-current switch
- Op-amp input for various signals	
- Analog voltage in for microcontroller control	



PCB Specifications:

PCB:	1/16" FR4, 2oz Cu, Lead-free, HASL,
	SMOBC
Plating:	2 layers PCB with through hole plating
PCB Size:	3.30"x3.28""
Mt Holes:	4x0.125" (3.2mm)
Power:	3x 1/4" /6mm power GND in/out.
Layout:	Double-sided traces with silkscreen
Weight:	25g

Module Applications:

See schematic and parts list for component selection.

- 1. High current ON/OFF switch or low frequency PWM switch.
- 2. High current PWM motor speed controller with current limiting.
- 3. High power load for battery discharge or load burn-in testing.
- 4. High power over-voltage load regulator/load.
- 5. High power programmable electronic load regulator









