



FEATURES

Compatible with the full range of Bosch CoolPack batteries

Durable and functional design

Cost-effective

Easy to fit

BENEFITS



High current power for demanding portable applications



Versatility / Flexibility



Ease of use

APPLICATIONS

Assembly aids

Test equipment

Portable power supply

The tool battery regulator was designed to enable equipment designed for use on a 12V automotive supply to be powered from the range of Bosch CoolPack tool batteries.

This is an ideal solution to provide **high current, replaceable power for demanding portable applications** (automotive power aids, test equipment, etc.).



The regulator supports both 14.4V and 18V batteries across the range of capacities.

The durable **black anodised aluminium slide connector** is one of the key features of the device, which doubles as a heatsink for the regulator electronics.

FEATURES

- Automatic 14.4V and 18V operation with shutdown on battery exhaustion to avoid deep discharge
- PCB mounted power good and fault status LEDs
- 8 way Molex KK series control connector for the enable, power good, current mimic and secondary output signals
- Battery input internally fused at 20A for safety
- Dimensions: H 110mm x W 75mm x D 25mm
- Part number: SEL0092



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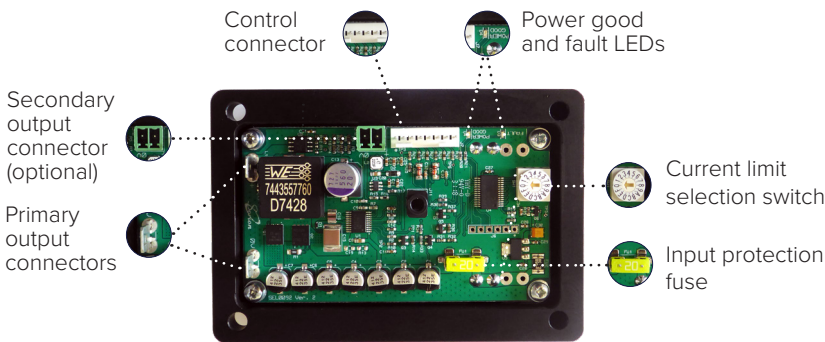
The device has **two discrete 13.5V regulated outputs**:

PRIMARY REGULATOR

- Output is 13.5V at up to 10A continuous or 15A intermittent
- “Hiccup” current limiting (shutdown/restart) to protect load and supply, adjustable in 1A increments from 1 to 15A using PCB mounted rotary switch
- Thermal shutdown in the event of continuous high duty usage
- Separate active low enable control signal or can be continuously enabled
- Analogue output voltage which mimics the output current to provide an indication of current draw to external equipment
- Output connection via ¼”/6.35mm Faston terminals

SECONDARY REGULATOR

- Output is 13.5V at up to 500mA
- Intended to power control circuits independently of the Primary regulator
- Separate active low enable control signal or can be continuously enabled
- Output connection via the control connector or an optional 2 pin 3.81mm pitch two part Phoenix Contact terminal block



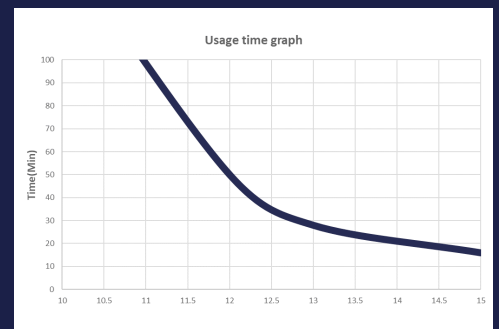
THE SORION SOLUTION



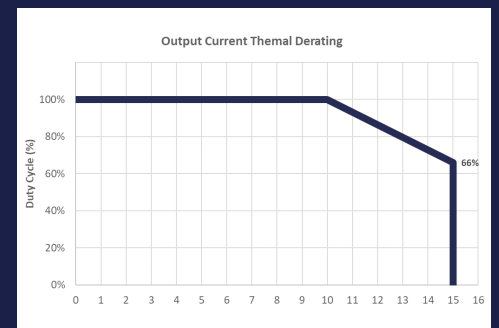
Assembly aid fitted with the SEL0092 battery regulator



Test equipment powered by a tool battery using SEL0092



Usage time graph



Output current thermal derating

CONTROL INTERFACE

Pin	Designation	Function
1	+13.5V	Secondary regulator output
2	0V	Ground
3	nPRI_ON	Primary regulator enable input (active low)
4	PRI_PG	Primary power good output (can drive LED or external logic)
5	nSEC_ON	Secondary regulator enable input (active low)
6	SEC_PG	Secondary power good output (can drive LED or external logic)
7	PRI_I	Voltage proportional to primary output current (322mV/A)
8	0V	Ground



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