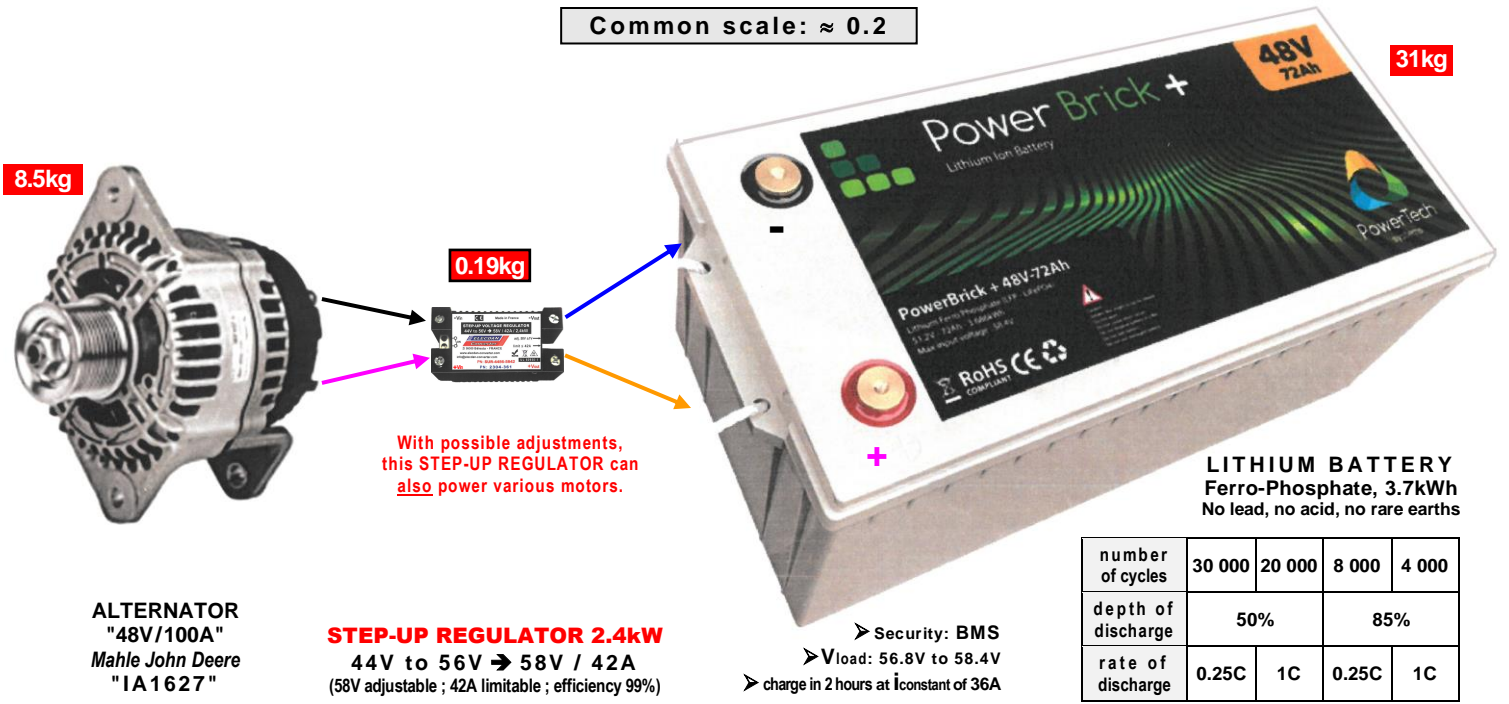


Example of fast charging, with a powerful alternator and a high capacity battery

Common scale: ≈ 0.2



This mini regulator (with an exceptional efficiency of 99%) charges lithium batteries (48V nominal, 58V charged) with a constant current limitable from 42A to 4A and a fixed or adjustable constant voltage.

Step-up Regulator Scale: 1

STEP-UP VOLTAGE REGULATOR
44V to 56V \rightarrow 58V / 42A / 2,4kW

ELECDAN Converter
Zi 09300 Bélesta - FRANCE
www.elecdan-converter.com
info@elecdan-converter.com

PN : SUR 44-56/58-42/RVī
IPN : 2304-361

adj. 58V \pm 1V
limit \leq 42A
UL 60950-1

Two trimmers axis "10 turns", \varnothing 3mm, adjusting V_{out} et I_{out}

Bottom view - Scale: 1 (Dimensions in mm)

base plate 58.4 x 36.8
3 inserts M3 (screw-in depth 3mm)

Four special connectors allowing sections up to 30mm²

1 ELECTRICAL SPECIFICATIONS

- Input voltage range V_{in} : 44V to 56V
- Maximum current absorbed by the input: 56A
- Output voltage V_{out} : 58V fixed (or adjustable \pm 1V)
- Output current I_{out} : reducible from \leq 42A to \leq 4.2A, as long as V_{out} remains $> V_{in}$
- Line and load regulations: better than 1%
- If the inrush current exceeds the current determined by the limitation setting, the output voltage is lowered to the level of the input source, which is then directly directed to the load
- Input and output zero: separated by 1m Ω

2 PROTECTIONS also for other loads (e.g. motors)

- OFF: elevation function disabled, so $V_{out} = V_{in}$
- Constant current operation, at the set value, as long as the decreasing output voltage remains higher than that of the input source
- For an inrush current \geq 80A (example: 200A), during \geq 100ms, please wire an external diode 20V / 200A, as in this mounting
- Sealing: IP65

3 THERMAL SPECIFICATIONS

- Storage temperature: -20°C to +100°C
- Operating temperature: -20°C to +75°C
- To be mounted on a thermally conductive wall

4 MECHANICAL DESCRIPTION

- Case: 85 x 40 x 33mm (including connectors)
- Mounting: 3 M3, as per diagram opposite
- Special clamp connectors for cables with cross-section \leq 30mm².

| SKU | V_{out} ajustable | I_{out} reducible | PUHT (€) |
|--|---------------------|---------------------|----------|
| SUR 44-56/58-42/RVī | yes | yes | |
| SUR 44-56/58-42/Rī | no | yes | |
| Option : control of I_{out} "0 to 10V \rightarrow 4 to 40A" | | | |