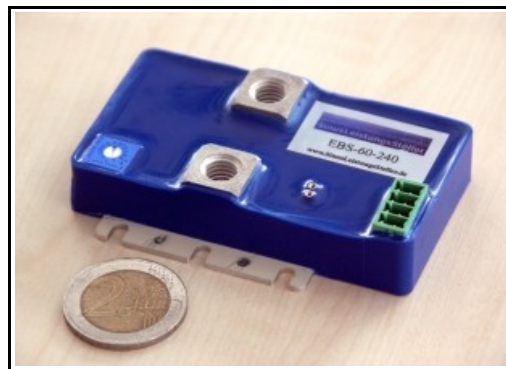


EBS-60-240 EBSi-60-240
EBS-60-400 EBSi-60-400

Electronic Battery Switch

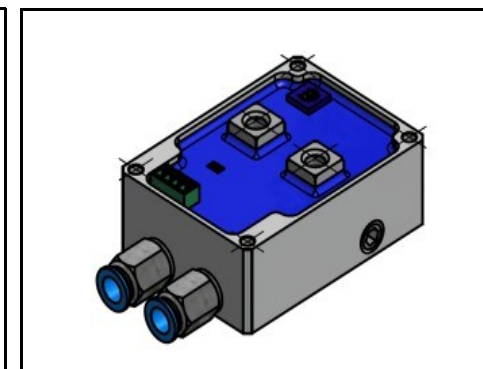
- MOSFET switch
- adjustable current limit
- precharge unit
- insulated control
- water cooled (option)



EBS-60-240



EBSi-60-240



EBSi-60-400-WK

| | EBS-60-240 and EBSi-60-240 | | | EBS-60-400 and EBSi-60-400 | | |
|---|----------------------------|------------|------------------|----------------------------|------------|------------------|
| Power stage | min | typ | max | min | typ | max |
| DC-voltage range | 0Vdc | | 60Vdc | 0Vdc | | 60Vdc |
| DC-current range | 0A dc | | 240A dc (Note 1) | 0A dc | | 400A dc (Note 1) |
| DC-current limit range (Note 3) | 20A dc | | 240A dc | 40A dc | | 400A dc |
| DC-current limit trigger delay time | | 10µs | | | 10µs | |
| R _{ds_on} (25°C, Terminal-to-Terminal) | | 0.002 Ohm | | | 0.001 Ohm | |
| Energy, active clamped at switch-OFF | | | 1 Joule | | | 1 Joule |
| Precharge current (25°C/80°C Note 2) | | 250mA/40mA | | | 250mA/40mA | |
| Main switch leakage current (OFF) | | | 100µA | | | 100µA |
| ON-signal (INPUT) (Note 4) | | | | | | |
| Turn-On threshold, 20mA | 8Vdc | | 60Vdc | 8Vdc | | 60Vdc |
| Turn-Off threshold, 20mA | | | 7Vdc | | | 7Vdc |
| Input current (8V..60V), internal limited | | 20mA | 28mA | | 20mA | 28mA |
| ERROR-signal (OUTPUT) (Note 4) | | | | | | |
| Input current (3V..60V), internal limited | 1mA | 20mA | 28mA | 1mA | 20mA | 28mA |
| LOW-Level, 1mA | | | 3Vdc | | | 3Vdc |

| | EBS-60-240 and EBSi-60-240 | | | EBS-60-400 and EBSi-60-400 | | |
|--|----------------------------|----------------|------|----------------------------|----------------|------|
| Miscellaneous | min | typ | max | min | typ | max |
| Insulation voltage (signal-to-power) | 1.500Vdc | | | 1.500Vdc | | |
| Insulation voltage (signal-to-base/case) | 1.500Vdc | | | 1.500Vdc | | |
| Operation temperature range | -10°C | | 80°C | -10°C | | 80°C |
| Weight (EBS / EBSi / EBSi-WK) | | 100g/270g/320g | | | 100g/270g/320g | |
| Material EBSi/EBSi-WK pot case | AlMgSi1 | | | | | |
| Screw torque (M8-terminals) | | | 9Nm | | | 9Nm |

Note 1: External heat sink required for continuous operation at high currents.

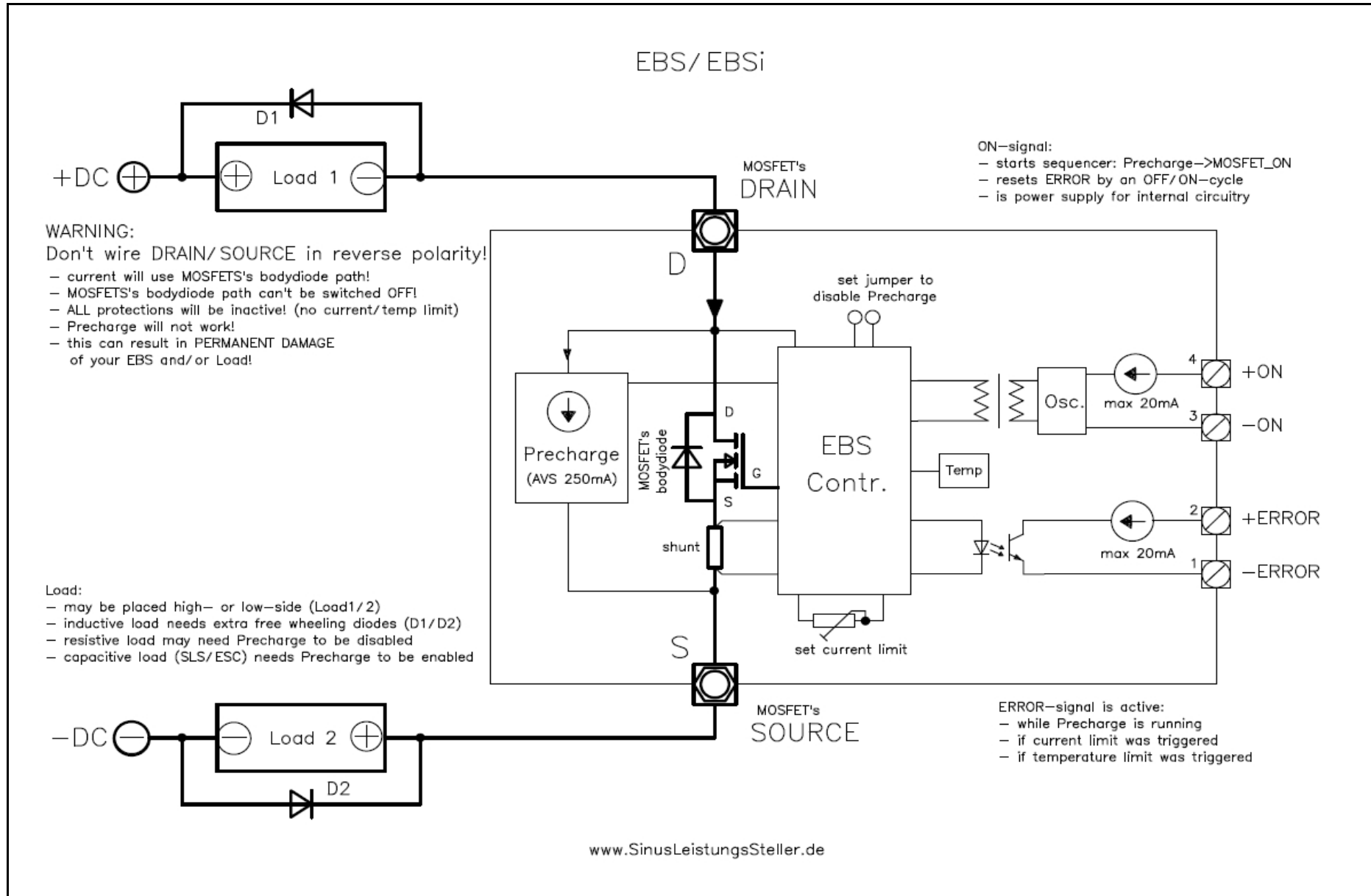
Note 2: Precharge unit derates current at high temperature for protection → cool down EBS, if precharge fails caused by low precharge current.

Don't connect additional loads that could lower precharge current for main load (SLS/ESC).

Note 3: Adjust current limit as low as possible in order to protect your load!

Note 4: Because current is limited there is no resistor needed for driving external LED





EBS/EBSi - Examples of usage

