



Brick[®] 1.5 Interchangeable System

Technical Datasheet



48V | 1,5 kWh | 11,7 kg*

A variety of configurations possible
*All technical data dependent on
HV Fuse, Connector, DoD/SoC and cooling

Developed according to automotive standards.

- Developed according to ISO 26262 and IATF 16949, optional up to ASIL B / SIL 2 (48V)
- Safety-tested (i.e. ECE R10, UN 38.3, ECE R100)
- Protection class IP 67 (IP 68 available upon request)
- SoC / SoH monitoring
- Short circuit protection at cell and system level
- Voltage monitoring at cell level
- Passive cell balancing
- Functional monitoring via robust, innovative, tested BMS
- Energy tracking, end-of-life prediction and residual value determination through connection to the SCIO cloud

Powerful. Compact. Modular.

- Freely scalable system (up to 6 modules in parallel)
- High power and energy density
- Compact and lightweight
- Significant weight reduction due to optimized cell layout
- Durable solution and maintenance-free operation
- Perfect integration into the system network (CAN interface)
- Robust housing with LED SoC display (optional) and pressure equalization vent for demanding applications
- Excellent pricing due to patented, highly automated manufacturing processes
- Swap system enables quick and efficient handling

Technical Data SCIO Brick® 1.5 Interchangeable System

System voltage	48 V		
Number of bricks	1	2	3
Capacity	30 Ah	60 Ah	90 Ah
Energy	1,5 kWh	3,0 kWh	4,5 kWh
Cell technology	Li-Ion NMC		
Nominal voltage	51,1 V		
Voltage [max.]	58 V		
Voltage [min.]	42 V		
Discharge current [max.]	90 A	180 A	270 A
Discharge current [nom.]	30 A	60 A	90 A
Charging current	15 A	30 A	45 A
Number of cycles	1.500 bis 3.000 Zyklen		
Ambient temperature	-20°C bis 50°C		
Recommended ambient temperature	0°C bis 45°C		
Protection class	IP 67		
Weight	11,7 kg	23,4 kg	35,1 kg
Dimensions [L x W x H] in mm	399 x 220 x 92	399 x 220 x 184	399 x 220 x 276

Optional erhältlich

Docking station / frame
Handle
Wire harness
Connector set
Charger 48V

Contact information

SCIO Technology GmbH
Hefner-Alteneck-Straße 11
63743 Aschaffenburg
Germany

+49 6021/ 362 2231
sales@scio-technology.com
www.scio-technology.com



© SCIO Technology GmbH - 2021 All rights reserved. Reprinting, duplication, translation and transfer to other media only with written consent of the publisher. The Information in this print product was created very carefully. Liability claims against SCIO Technology GmbH or its employees with regards to non-material or material damage caused by the use or non-use of the information provided or the use of possibly incorrect or incomplete information are excluded, unless it can be proven that there was intentional or grossly negligent fault.