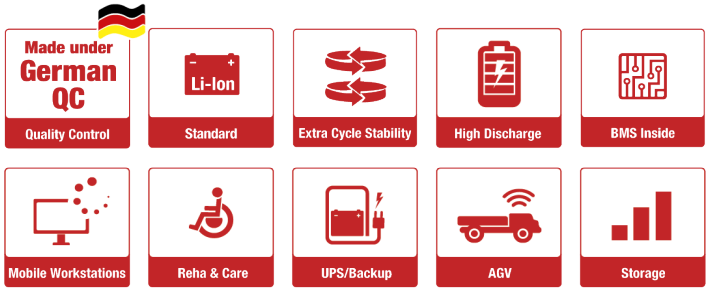
Data sheet

Lithium Iron Phosphate ($LiFePO_4$)

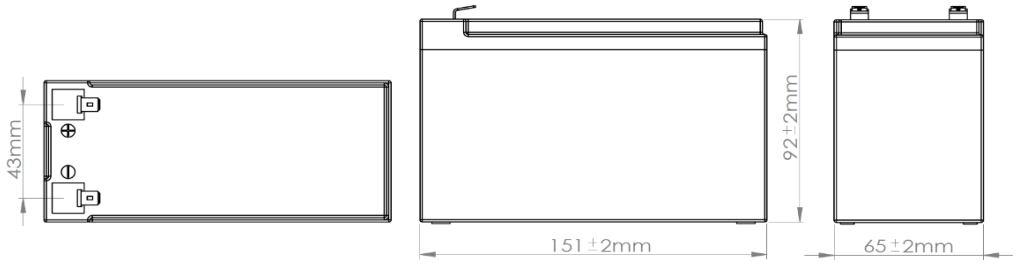
LiBrick S24-3.3 T2



UN 38.3

Main Applications

- Mobile Workstations
- Reha & Care
- UPS/Backup
- AGV
- Storage
- Medical Devices
- Emergency Lights



Electrical Parameter		
Cell type	18650	
Technology	Lithium Iron Phosphate (LFP)	
Configuration	8S3P	
Nominal voltage	25,6	V
Rated capacity	3,3	Ah
Rated energy	84,48	Wh
Internal resistance	-	mΩ
Interconnectable (serial)	2	
Interconnectable (parallel)	4	

Mechanical Parameter		
Length (±2mm)	151	mm
Width (±2mm)	65	mm
Height (±2mm +2 mm T2)	92	mm
Weight	1200	g
Volumetric energy density	93,6	Wh/l
Gravimetric energy density	70,4	Wh/kg
Housing	ABS; V0 - UL94	
Protection level	(not certified)	IP56
Special features	designed for highest safety	
Life span* >	5	Years

Charge Parameter		
Charging methode	CC-CV	
Recommended charge current	1,65	A
Maximum charge current	3,3	A
End of charge voltage	28,4	V
Temperature range charge	0 - 45	°C
Temperature range storage	0 - 40	°C
Humidity range	5-85%	%RH
Recuperation	/	A
Cycle life* at 80% DOD	4000	

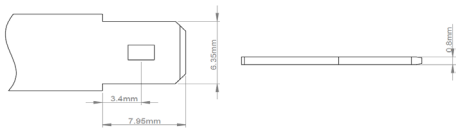
Discharge Parameter		
Constant discharge current	25	A
Peak discharge current	30	A
Duration of peak discharge	5	s
End of discharge voltage	20	V
Temperature range discharge	-20 - 60	°C
Discharge current @ < -20°C	0,66	A
Discharge current @ -15°C	1,65	A
Discharge current @ > 0°C	25	A
Capacity drop at low temp.	80% (-10°C/0,2C) 50% (-20°C/0,2C)	

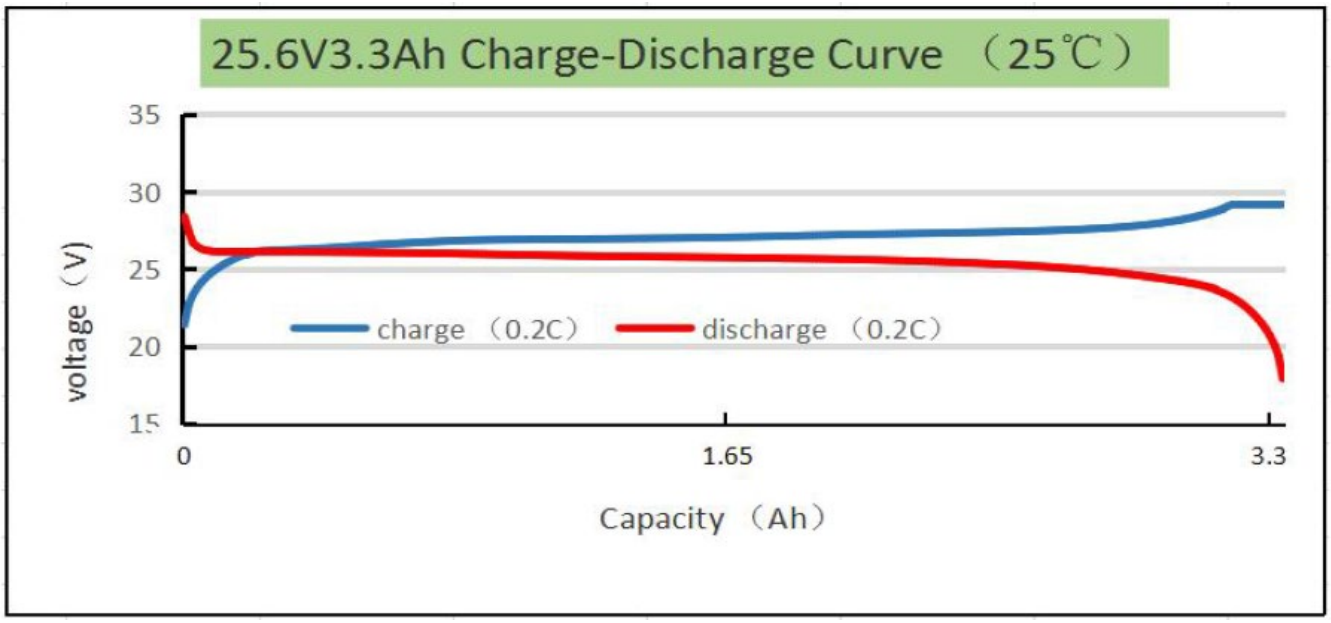
Data sheet

BMS Parameter		
Short circuit protection	100-600	µS
Over current protection	75±10	A
Over current protection	≤500	mS
Deep discharge protection cell	2,3±0,1	V
Deep discharge protection	≤1500	mS
Over voltage protection cell	3,65±0,05	V
Over voltage protection	≤1500	ms
Over temp. protection >	65±5	°C
Balancing start voltage >	3,475±0,025	V
Board consumption (sleep)	100	µA

Interconnector / Interfaces	
Charge	T2
Discharge	T2
Data	/
Communication	/
Communication protocol	/

T2





Suitable Accessories

Compliance	
UN38.3	Yes
RoHS	Yes
REACH	Yes
CE	Yes
UL1642	Cell
IEC 62133-2:2017	Ready
UL2054	Ready

*Values are approximations only. Cycle life and life span significantly depend on usage patterns and ambient conditions.