# **Data sheet**



### Lithium Iron Phosphate (LiFePO<sub>4</sub>)

### **LiBrick S12-7.5 T1**































Reha & Care

⊕ UPS/Backup

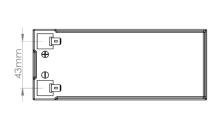
♣ AGV

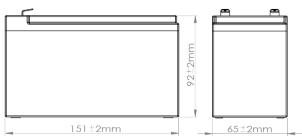
Storage

Medical Devices

Emergency Lights







Electi	rical Parameter	
Cell type	18650	
Technology	Lithium Iron Phospate (LFP)	
Configuration	4S5P	
Nominal voltage	12,8	V
Rated capacity	7,5	Ah
Rated energy	96	Wh
Internal resistance	40	mΩ
Interconnectable (serial)	4	
Interconnectable (parallel)	4	

Mechanical Parameter			
Length (±2mm)	151	mm	
Width (±2mm)	65	mm	
Height (±2mm +2 mm T1)	92	mm	
Weight	1100	g	
Volumetric energy density	106,3	Wh/l	
Gravimetric energy density	87,3	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	3,75	А	
Maximum charge current	7,5	А	
End of charge voltage	14,6	V	
Temperature range charge	0 - 45	°C	
Temperature range storage	0 - 40	°C	
Humidity range	5-85%	%RH	
Recuperation	/	А	
Cycle life* at 80% DOD	4000		

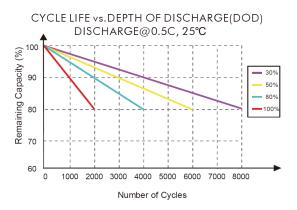
Discha	rge Parameter	
Constant discharge current	20	Α
Peak discharge current	37,5	Α
Duration of peak discharge	5	S
End of discharge voltage	10	V
Temperature range discharge	-20 - 60	°C
Discharge current @ < -20°C	0	Α
Discharge current @ -15°C	3,5	Α
Discharge current @ > 0°C	20	Α
Capacity drop at low temp.	80% (0°C/0,2C) 50% (-10°C/0,2C)	

## **Data sheet**

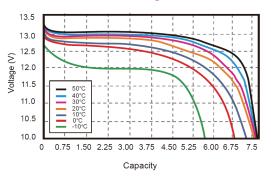


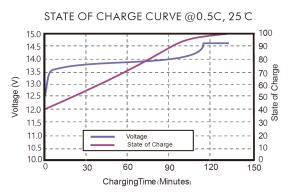
BMS	Parameter	
Short circuit protection	100-600	μS
Over current protection	50±10	А
Over current protection	≤300	mS
Deep discharge protection cell	2,0±0,1	V
Deep discharge protection	≤300	mS
Over voltage protection cell	3,9±0,05	V
Over voltage protection	≤2000	ms
Over temp. protection >	65±5	°C
Balancing start voltage >	3,6±0,05	V
Board consumption (sleep)	100	μА

Interconnector / Interfaces			
Charge	T1		
Discharge	T1		
Data	/		
Communication	/		
Communication protocol	/		
	T1		
3.2mm 6.35mm	2 Amm.		

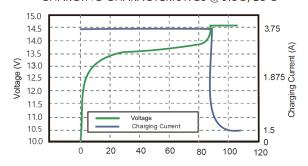








#### CHARGING CHARACTERISTICS @0.5C, 25°C



Suitable Accessories				

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

<sup>\*</sup>Values are approximations only. Cycle life and life span significantly depend on usage patterns and ambient conditions.

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