Data sheet

Lithium Iron Phosphate ($LiFePO_4$)

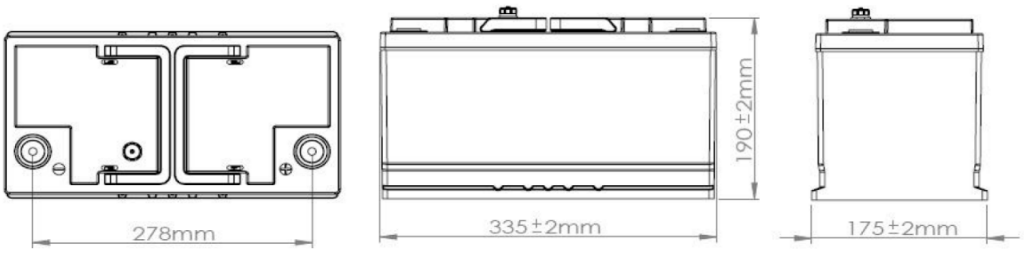
LiBrick S12-150 CAN

Made under German QC – Quality Control
Li-Ion – Standard
Extra Cycle Stability
High Discharge
BMS Inside
Mobile Workstations
Reha & Care
UPS/Backup
AGV
Storage

CE UN 38.3

Main Applications

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



Electrical Parameter		
Cell type	26650	
Technology	Lithium Iron Phospate (LFP)	
Configuration	4S33P	
Nominal voltage	12,8	V
Rated capacity	150	Ah
Rated energy	1920	Wh
Internal resistance	10	mΩ
Interconnectable (serial)	4	
Interconnectable (parallel)	4	

Mechanical Parameter		
Length (±2 mm)	335	mm
Width (±2 mm)	175	mm
Height (±2mm + 15-65mm Weipu)	190	mm
Weight	15500	g
Volumetric energy density	38843,2	Wh/l
Gravimetric energy density	123,9	Wh/kg
Housing	ABS; V0 - UL94	
Protection level	(not certified)	IP56
Special features	designed for highest safety	
Life span* >	5	Years

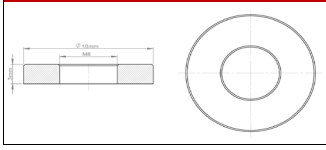
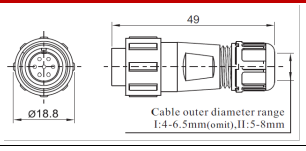
Charge Parameter		
Charging methode	CC-CV	
Recomended charge current	75	A
Maximum charge current	150	A
End of charge voltage	14,2	V
Temperature range charge	0 - 45	°C
Temperature range storrage	0-40	°C
Humidity range	5-85%	%RH
Recuperation	/	A
Cycle life* at 80% DOD	4000	

Discharge Parameter		
Constant discharge current	150	A
Peak discharge current	250	A
Duration of peak discharge	＜3	s
End of discharge voltage	10	V
Temperature range discharge	-20 - 60	°C
Discharge current @ < -20°C	30	A
Discharge current @ -15°C	75	A
Discharge current @ > 0°C	150	A
Capacity drop at low temp.	80%（-10°C/0.2C）50%（-20°C/0.2C）	

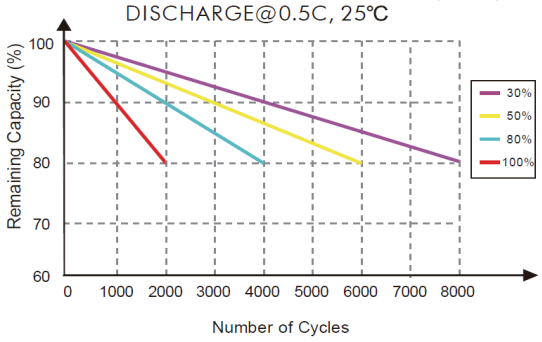
Data sheet

BMS Parameter		
Short circuit protection	320±100	µS
Over current protection	250±20	A
Over current protection	4000±500	mS
Deep discharge protection cell	2.2±0.05/8.8±0.2	V
Deep discharge protection	500-1500	mS
Over voltage protection cell	3.70±0.05/14.6±0.2	V
Over voltage protection	2000±500	ms
Over temp. protection >	65±5	°C
Balancing start voltage >	3350	V
Board consumption (sleep)	1500	µA

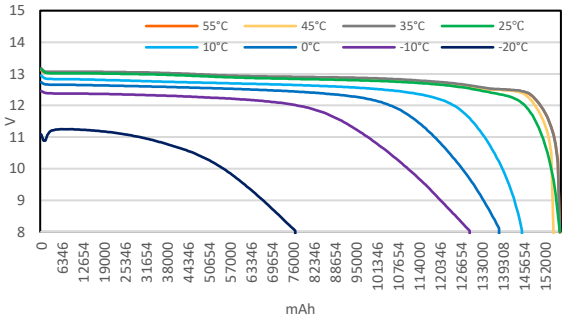
Interconnector / Interfaces	
Charge	M8
Discharge	M8
Data	Weipu SP1310
Communication	CAN Bus
Communication protocol	A, Rev. 1

M8	Weipu SP 1310/5P
	

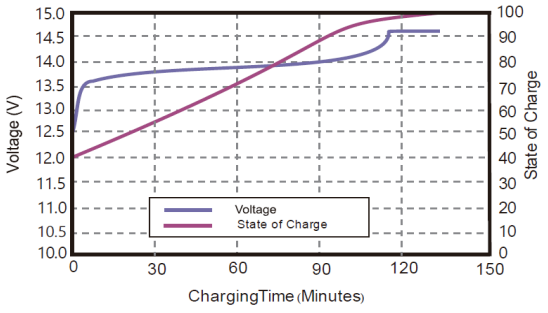
CYCLE LIFE vs.DEPTH OF DISCHARGE(DOD)
DISCHARGE@0.5C, 25℃



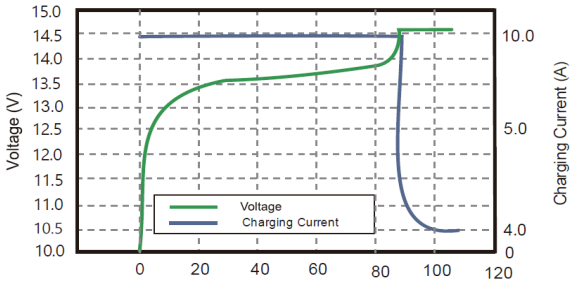
DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C



STATE OF CHARGE CURVE @0.5C, 25℃



CHARGING CHARACTERISTICS @0.5C, 25℃



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.