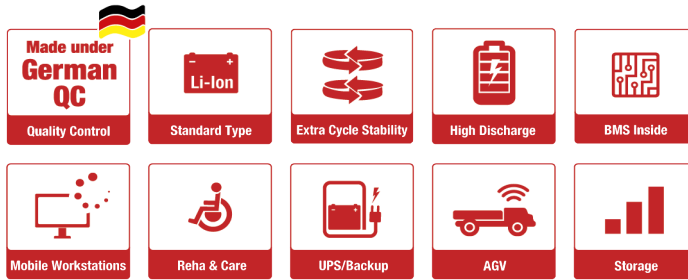


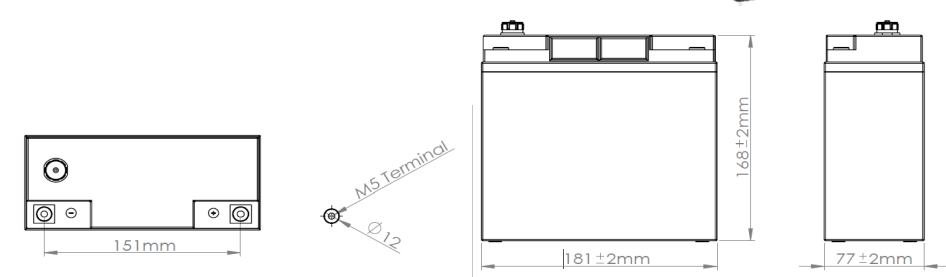
Lithium Iron Phosphate (LiFePO₄)

LiBrick S24-10 CAN



Main Applications

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



Electrical Parameter

| | |
|-----------------------------|------------------------------|
| Cell type | 26650 |
| Technology | Lithium Iron Phosphate (LFP) |
| Configuration | 8S3P |
| Nominal voltage | 25,6 V |
| Rated capacity | 10 Ah |
| Rated energy | 256 Wh |
| Internal resistance | 80 mΩ |
| Interconnectable (serial) | 2 |
| Interconnectable (parallel) | 4 |

Mechanical Parameter

| | | |
|------------------------------|-----------------------------|-------|
| Length (±2mm) | 181 | mm |
| Width (±2mm) | 77 | mm |
| Height (±2mm +15-65mm Weipu) | 168 | mm |
| Weight | 2700 | g |
| Volumetric energy density | 109,3 | Wh/l |
| Gravimetric energy density | 94,8 | 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 | 5 A |
| Maximum charge current | 10 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 |

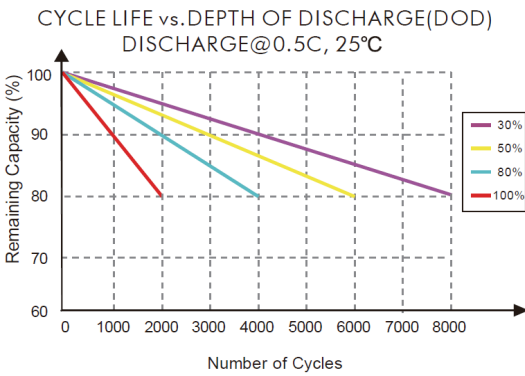
Discharge Parameter

| | | |
|-----------------------------|------------------------------------|----|
| Constant discharge current | 20 | A |
| Peak discharge current | 40 | A |
| Duration of peak discharge | < 4 | s |
| End of discharge voltage | 20 | V |
| Temperature range discharge | -20 - 60 | °C |
| Discharge current @ < -20°C | 0 | A |
| Discharge current @ -15°C | 5 | A |
| Discharge current @ > 0°C | 20 | A |
| Capacity drop at low temp. | 80% (-10°C/0,2C); 50% (-20°C/0,2C) | |

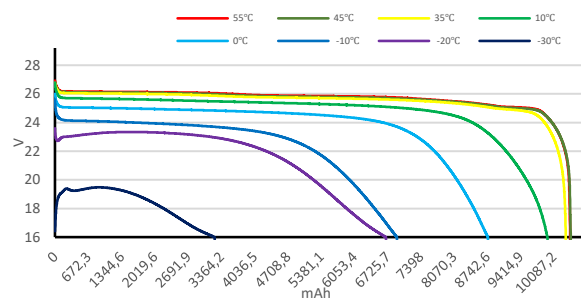
| BMS Parameter | | |
|------------------------------|-------------------|----|
| Short circuit protection | 100-500 | μS |
| Over current protection | 36A ± 3% Alarm | A |
| Over current protection | ≤1000 | mS |
| Deep disch. protection cell | 2,5±0,1 | V |
| Deep discharge protection | ≤1000 | mS |
| Over voltage protection cell | 3,7±0,05 | V |
| Over voltage protection | 1000 ± 500 | ms |
| Over temp. protection > | 65 (Alarm @ 60°C) | °C |
| Balancing start voltage > | 3,4±0,05 | V |
| Board consumption (sleep) | 800 | μA |

| Interconnector / Interfaces | |
|-----------------------------|----------------------------|
| Charge | M5 |
| Discharge | M5 |
| Data | RS485 over Weipu SP1310/S5 |
| Communication | CAN Bus |
| Communication protocol | A, Rev.1 |

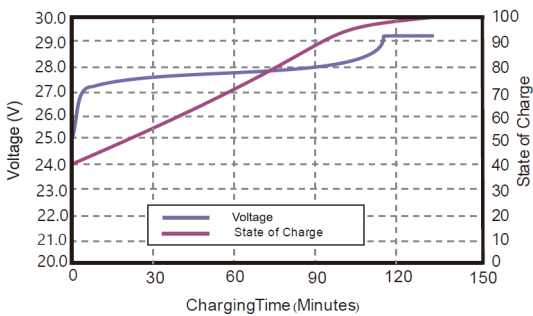
| M5 | Weipu SP1310/S5 |
|----|-----------------|
| | |



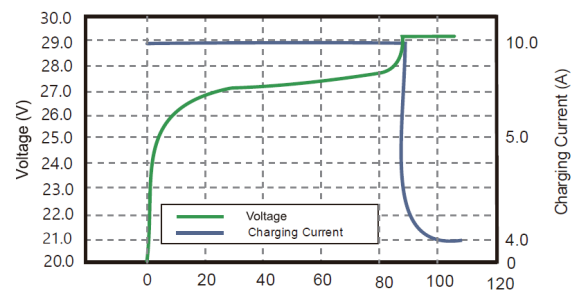
**DISCHARGE CAPACITY at VARIOUS TEMPERATURES
DISCHARGE @0.5C**



STATE OF CHARGE CURVE @0.5C, 25 C



CHARGING CHARACTERISTICS @0.5C, 25°C



| Suitable Accessories |
|----------------------------------|
| Weipu SP1310/P5 connection cable |

| 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.

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