



PRODUCT DATA SHEET

EVB TECHNOLOGY (HK) LTD. Member Gold Peak Group

scan QR code for product manual in PDF

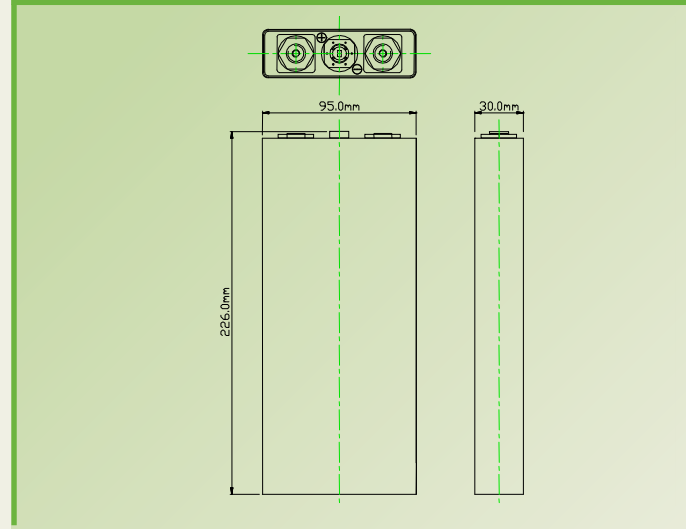
or visit www.evbtech.com/resources



GP45EVLF



DIAGRAM



GP45EVLF — DIAGRAM REF # EED028 000 REV.1

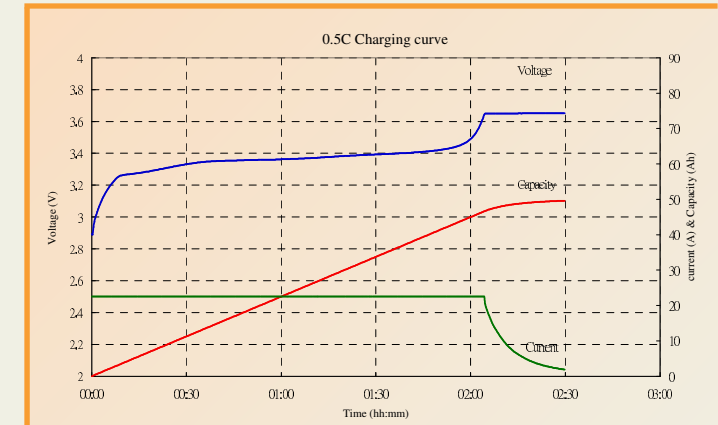
TECHNICAL SPECIFICATIONS

| | |
|-------------------------------------|---|
| Type | Rechargeable Lithium Ferro Phosphate Prismatic Batteries |
| Nominal dimension | T = 30.0mm +3/-0 H = 226.0mm +0/-2 W = 95.0mm +0/-0.5 |
| Nominal voltage | 3.2 V |
| Capacity | Min. 42Ah at 22.5A discharge to 2.0V at 20°C |
| Specific energy | 96Wh/kg at 0.5C discharge |
| Specific power | 459W/kg with 80% SOC at 5C 30sec. |
| Energy density | 189Wh/L at 0.5C discharge |
| Power density | 905W/L with 80% SOC at 5C 30sec. |
| Charging method | 22.5A (0.5C) to 3.65V for 2.5 hrs at 20°C |
| Charging termination control | Taper current 0.05C (2.3A) at 3.65V |

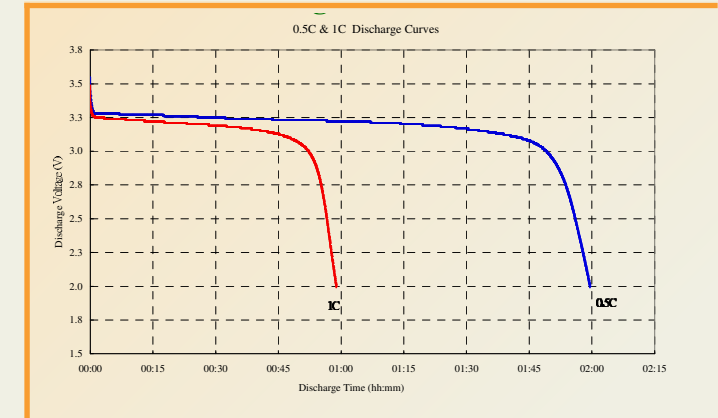
Note: Clamping is necessary during charge and discharge for unit cell.

| | |
|----------------------------------|---|
| Max. charging current | 45A (1C) continuous (consult GP for high current fast charge) |
| Max. discharge current | 225A (5C) continuous 450A (10C) pulse for 5s |
| Service life | >1500 cycles (80%DOD at 1C) |
| Weight | ~1.4kg |
| Internal resistance | <2mΩ |
| Ambient temperature Range | Charge: 0 to 45°C (conditionally) Discharge: -20°C to 50°C (conditionally) Storage: -20°C to 35°C |
| ISO document # | ERS1201 Rev. 02/0912 |
| Safety certificate | UN 38.3, UL |

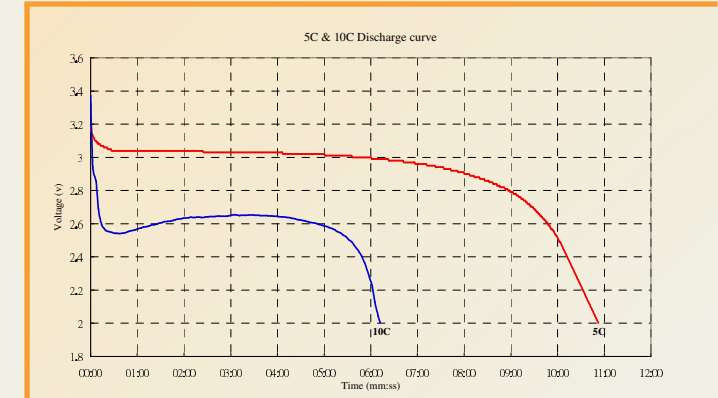
CHARGING CHARACTERISTICS AT 20°C



LOW RATE DISCHARGE AT 20°C



HIGH RATE DISCHARGE AT 20°C



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