

## Technical Specification **FORCE L1**

| Product Type                                 | Force L1  |                 |                 |                 |                 |                 |
|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Cell Technology                              | Li-ion(LFP)                                       |                 |                 |                 |                 |                 |
| System Model Name                            | Force-L1-48-148                                   | Force-L1-48-222 | Force-L1-48-296 | Force-L1-48-370 | Force-L1-48-444 | Force-L1-48-518 |
| Battery System Capacity(kWh)                 | 7.10  | 10.65           | 14.20           | 17.76           | 21.31           | 24.86           |
| Battery System Usable Capacity(kWh)          | 6.39  | 9.59            | 12.78           | 15.98           | 19.18           | 22.37           |
| Battery System Voltage(Vdc)                  | 48  |                 |                 |                 |                 |                 |
| Battery System Capacity(AH)                  | 148   | 222             | 296             | 370             | 444             | 518             |
| Battery Controller Name                      | FC0048-100S                                       |                 |                 |                 |                 |                 |
| Battery Module Name                          | FL48074   |                 |                 |                 |                 |                 |
| Battery Module Quantity(pcs)                 | 2   | 3               | 4               | 5               | 6               | 7               |
| Battery Module Capacity(kWh)                 | 3.552   |                 |                 |                 |                 |                 |
| Battery Module Voltage(Vdc)                  | 48  |                 |                 |                 |                 |                 |
| Battery Module Capacity(AH)                  | 74  |                 |                 |                 |                 |                 |
| Battery System Charge Upper-Voltage(Vdc)     | 53.5  |                 |                 |                 |                 |                 |
| Charge/Discharge Current(Amps, Standard)     | 30  | 45              | 60              | 75              | 90              | 100             |
| Charge/Discharge Current(Amps, Normal)       | 75  | 100             |                 |                 |                 |                 |
| Charge/Discharge Current(Amps, Max.@15S)     | 110   |                 |                 |                 |                 |                 |
| Battery System Discharge lower-Voltage(Vdc)  | 44.5  |                 |                 |                 |                 |                 |
| Battery System DC Rate Power(kW)             | 3.6   | 4.8             |                 |                 |                 |                 |
| Battery System DC Max. Power(kW,@15S)        | 5.28  |                 |                 |                 |                 |                 |
| Efficiency(%, ≤0.5C-rate)                    | 96  |                 |                 |                 |                 |                 |
| Depth of Discharge(%)                        | 90  |                 |                 |                 |                 |                 |
| Dimension(W*D*H,mm)                          | 600*380*530                                       | 600*380*700     | 600*380*870     | 600*380*1040    | 600*380*1210    | 600*380*1380    |
| Communication                                | RS485\CAN   |                 |                 |                 |                 |                 |
| Protection Class                             | IP55  |                 |                 |                 |                 |                 |
| Weight (kg)                                  | 86.5  | 123             | 159.5           | 196             | 232.5           | 269             |
| Operation Life(Years)                        | 15+   |                 |                 |                 |                 |                 |
| Operation Temperature(°C)                    | 0-50  |                 |                 |                 |                 |                 |
| Storage Temperature(°C)                      | -20-60  |                 |                 |                 |                 |                 |
| Altitude(M)                                  | <2,000  |                 |                 |                 |                 |                 |
| Product Certificate                          | VDE2510-50, IEC62619 , CE RED, IEC62477-1, UN38.3 |                 |                 |                 |                 |                 |
| Warranty                                     | 10 Years  |                 |                 |                 |                 |                 |
| 1) Battery Controller Dimensions (W*D*H, mm) | 600×380×150                                       |                 |                 |                 |                 |                 |
| 2) Battery Module Dimensions (W*D*H, mm)     | 600×380×170                                       |                 |                 |                 |                 |                 |
| 3) Battery bottom base Dimensions(W*D*H, mm) | 600×380×40  |                 |                 |                 |                 |                 |