



## Powering Industry: Robust Energy Storage Solutions for Uninterrupted Operations.

The 1C Industrial String Battery Series is a high voltage 1C energy storage solution designed for demanding commercial and industrial applications. Using advanced **Lithium Iron Phosphate  $\text{LiFePO}_4$**  chemistry, the range covers capacities from **36 kWh** to **133 kWh**, with nominal system voltages spanning from **345 Vdc** to **1267 Vdc**. This wide operating range enables straightforward integration into large scale power systems and microgrid installations.

Each system features a **modular architecture** with low-weight sub-modules and **string expandability**, allowing easy customization and scalability as your energy needs grow. The **3-tier BMS** ensures intelligent monitoring, seamless parallel connection, and exceptional system reliability, while **active cooling** and **integrated soft start** technology optimise performance under heavy loads.

Safety and reliability are at the core of every S1C05 battery with **touch-proof plugs, integrated DC disconnects, built-in fuses**, and continuous **isolation resistance monitoring**. Communication flexibility via **RS485, CAN, and Ethernet** makes integration effortless with advanced energy management and inverter systems.

With a cycle life exceeding **4,000 cycles**, **surge power up to 2C**, and a **10-year warranty**, the 1C Industrial String Battery Series is engineered for long-term durability, superior safety, and scalable performance making it the ideal backbone for microgrids and industrial facilities.

## INDUSTRIAL BATTERY SPECIFICATIONS

|                               | S1C136   | S1C149           | S1C160           | S1C172           | S1C184           | S1C196           | S1C1108          | S1C1120          | S1C1133          |
|-------------------------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Cell Chemistry                | Lithium Iron Phosphate (LiFePO4)   |                  |                  |                  |                  |                  |                  |                  |                  |
| Nominal Voltage               | 345Vdc   | 460Vdc           | 576Vdc           | 691Vdc           | 806Vdc           | 921Vdc           | 1036Vdc          | 1152Vdc          | 1267Vdc          |
| Operating Voltage             | 270-394 Vdc  | 360-525 Vdc      | 450-657 Vdc      | 540-788 Vdc      | 630-919 Vdc      | 720-1051 Vdc     | 810-1182 Vdc     | 900-1314 Vdc     | 990-1445 Vdc     |
| Rated Capacity                | 36kWh  | 49kWh            | 60kWh            | 72kWh            | 84kWh            | 96kWh            | 108kWh           | 120kWh           | 133kWh           |
| Nominal Power                 | 1C   |                  |                  |                  |                  |                  |                  |                  |                  |
| Surge (Max) Power             | 2C   |                  |                  |                  |                  |                  |                  |                  |                  |
| Cycle Life                    | >4000 Cycles   |                  |                  |                  |                  |                  |                  |                  |                  |
| Modules                       | 3  | 4                | 5                | 6                | 7                | 8                | 9                | 10               | 11               |
| Ambient Operating Temperature | 0 - 50C  |                  |                  |                  |                  |                  |                  |                  |                  |
| Storage Duration              | 6 Months @ 25C   |                  |                  |                  |                  |                  |                  |                  |                  |
| Weight                        | 297kg  | 388kg            | 479kg            | 570kg            | 661kg            | 752kg            | 843kg            | 934kg            | 1025kg           |
| Dimensions (LxDxH, mm)        | 460 x 570 x 1265   | 460 x 570 x 1585 | 460 x 570 x 1900 | 920 x 570 x 1265 | 920 x 570 x 1265 | 920 x 570 x 1585 | 920 x 570 x 1585 | 920 x 570 x 1900 | 920 x 570 x 1900 |
| Communication                 | RS485   CAN   Ethernet   |                  |                  |                  |                  |                  |                  |                  |                  |
| Safety Features               | Touch-Proof Plugs   Isolation Resistance Measurements   Integrated DC Disconnect   Integrated Fuses                              |                  |                  |                  |                  |                  |                  |                  |                  |
| Features                      | 3 Tier BMS for Easy Paralleling   Modular (Low Weight Sub-Modules)   String Expandable<br>Integrated Soft Start   Active Cooling |                  |                  |                  |                  |                  |                  |                  |                  |
| Warranty                      | 10 Years   |                  |                  |                  |                  |                  |                  |                  |                  |

## CONTACT US



Block C1 , 31 Spier Street, Glen Marais, 1619



sales@static.co.za  
sales@juel.co.za



011 397 5316