

# PowerForma

## 400V 48KWh

Medium Voltage  
Graphene Supercapacitor  
Energy Storage System



### Product Specifications

|                           |                                |
|---------------------------|--------------------------------|
| Part Number               | SCE400V48KME                   |
| Nominal Voltage           | 403.2 V/DC                     |
| Cell Type                 | Graphene Supercapacitor        |
| KWh                       | 48.38 KWh                      |
| Amp-hours                 | 120                            |
| Max Charge Voltage        | 453.6 V/DC                     |
| Cutoff Voltage            | 352.8 V/DC                     |
| ESR/AC @1KHz              | <30mΩ                          |
| Max Charge Current        | 100 A                          |
| Max Discharge Current     | 150 A                          |
| Cells Self-discharge Rate | 2% per month                   |
| Cycle Life                | 20,000                         |
| Recommended SOC Range     | 10%~98%                        |
| Max Depth of Discharge    | 100%                           |
| Round Trip Efficiency     | 97%                            |
| Monitoring Data           | Module Voltage, SOC, Cell Temp |
| Indicator Light Display   | Capacity %                     |
| Communication             | RS485                          |
| Series Connection         | Not Permitted                  |
| Parallel Connection       | Unlimited                      |

### Compliance Information

|                        |  |
|------------------------|--|
| Certificates Compliant | CE:EN 62133:2013, EN 55032:2015+AC:2016, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013 |
|------------------------|--|

### Environmental Information

|                       |                         |
|-----------------------|-------------------------|
| Discharge Temperature | -20°C~+60°C             |
| Charge Temperature    | 0°C~+55°C               |
| Cooling Method        | Natural cooling         |
| Operating Humidity    | 0~90% RH Non-condensing |
| IP Grade              | IP55                    |

### Mechanical Specifications

|                        |                       |
|------------------------|-----------------------|
| Weight                 | 580 Kg                |
| Dimensions (W x D x H) | 800 x 900 x 1250 (mm) |