





Energy Storage System (ESS) for residential applications -

# STORION SERIES SMILE-T10



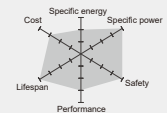
## ✓ Key Features

-  **UPS ability**
-  **Outdoor/Indoor**
-  **Modular design**
-  **24/7 Monitoring**



### Real-time Monitoring

All systems can be monitored by **Web and iOS/Android APP**.



### Safest Chemistry

AlphaESS uses Li-phosphate for its excellent safety and long lifespan.

## About AlphaESS

As one of the earliest pioneers in energy storage market with lithium iron technology, AlphaESS has a vision to pave the path for everyone in the world to enjoy clean energy one day.

AlphaESS is a multinational company that currently has more than 10'000 residential and commercial systems running in 30 countries globally and its products are accredited by IEC, TÜV, CEC and many other international standards.

All AlphaESS energy systems are integrated with smart energy management solutions. AlphaESS is committed to revolutionize the future energy network through our patented German technologies.

| System Specification |                                                       |           |  |
|----------------------|-------------------------------------------------------|-----------|--|
| Model                | Storion-SMILE-T10                                     |           |  |
| Nominal Output Power | 10 000 VA                                             |           |  |
| Max. DC Input Power  | 13 000W*                                              | 12 000W** |  |
| Capacity Range       | 11.5 kWh ~ 23.0 kWh (90% DoD)                         |           |  |
| Battery Chemistry    | LFP (LiFePO4)                                         |           |  |
| IP Protection        | IP21 (Indoor) / IP65 (Outdoor)                        |           |  |
| Warranty             | 5 Year Product Warranty, 10 Year Performance Warranty |           |  |

| Inverter Technical Specification  |                |                 |                        |                                                                                              |
|-----------------------------------|----------------|-----------------|------------------------|----------------------------------------------------------------------------------------------|
| Model                             | SMILE-T10-INV  |                 | Max. AC Output Current | 16.5 A                                                                                       |
| Max. PV Input Current             | 12.5 / 12.5 A* | 12.5 / 22 A**   | Max. AC Input Current  | 22.7 A                                                                                       |
| Max. PV Input Voltage             | 1000 V*        | 600 V**         | Output Power Factor    | 1 (Adjustable from 0.8 leading to 0.8 lagging)                                               |
| Max. Short Current                | 15.2 / 15.2 A* | 15.2 / 27.6 A** | Backup                 | UPS                                                                                          |
| MPPT Number                       | 2              |                 | Display                | LCD (in HV50056)                                                                             |
| MPPT Voltage Range                | 200 ~ 850 V*   | 200 ~ 550 V**   | Humidity               | 15% ~ 85% (No Condensing)                                                                    |
| Start-up Voltage                  | 180V           |                 | Dimension (WxDxH)      | 610 x 236 x 605 mm                                                                           |
| Max. Charging/Discharging Current | 25 A           |                 | Weight                 | 40 kg                                                                                        |
| Phase                             | Three-Phase    |                 | Grid Regulation        | CEI 0-21, VDE4105-AR-N, EN50438, G83/2, G100* AS/NZS 4777.2**                                |
| Rated Voltage                     | 400 / 380 V    |                 | Safety                 | IEC 62109-1&-2, IEC 62040-1                                                                  |
| Rated Frequency                   | 50 / 60 Hz     |                 | EMC                    | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29 |

| Battery Technical Specification   |                    |
|-----------------------------------|--------------------|
| Module Model                      | M4856-S            |
| Module Capacity                   | 2.9 kWh            |
| Module Nominal Voltage            | 51.2 V             |
| Operating Temperature Range       | -10 °C ~ 50 °C***  |
| Module Weight                     | 42 kg              |
| Module Dimension (W x D x H)      | 610 x 236 x 303 mm |
| Cycle Life                        | ≥ 6000             |
| Max. Charging/Discharging Current | 56 A (1C)          |

| High Voltage Control Box Technical Specification |                         |
|--------------------------------------------------|-------------------------|
| BMU Model                                        | HV50056                 |
| DC Voltage Range                                 | 179 ~ 465 V             |
| Nominal Output Current                           | 56 A                    |
| Battery Modules Connection                       | 4 ~ 8 M4856-S in series |

For further information and order enquiries contact us below

\*except Australia and New Zealand  
 \*\*only for Australia and New Zealand  
 \*\*\*When the temperature is below 0 °C or above 40 °C, the performance will be limited.

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