

## Utility Series



## i-TANK PRO MAX

LIQUID-COOLED UTILITY ENERGY STORAGE SYSTEM

**210 kW** | **418 kWh**  
Power Rating | Energy Capacity



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More Info.

418 kWh Battery Energy Storage Cabinet

### Key Features:

-  Long-life LFP Cells —  $\geq 6,000$  Cycles @ 70% SOH, 10-year Design Life
-  Comprehensive Protection — Over/under-voltage, Over-current, Short-circuit And Temperature Protection With E-stop
-  Integrated Fire Protection — Cabinet-Level Aerosol + Water-Based Fire Suppression Interface
-  Advanced Liquid Cooling — 8 kW Chiller Capacity for Efficient Battery Temperature Management
-  All-in-One Cabinet — Integrated Battery Packs, Two-Level BMS, PCS and Three-Tier Fire Suppression in a Single Unit.
-  Flexible Operating Modes — Grid-Independent, Standalone (Islanding) & Backup Operation Supported



Toll Free NO. 1800 309 7880



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| TECHNICAL PARAMETERS              |                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------|
| SYSTEM PARAMETERS                 |                                                                                                             |
| Energy Capacity                   | 418 kWh                                                                                                     |
| Nominal System Voltage            | 1331.2 V DC                                                                                                 |
| Voltage Range                     | 1102 V - 1500 V                                                                                             |
| Rated Capacity                    | 314 Ah                                                                                                      |
| Power Rating (Charge / Discharge) | 210 kW @800V AC Output                                                                                      |
| Round-trip Efficiency             | ≥90%                                                                                                        |
| System Topology                   | PCS-based                                                                                                   |
| Auxiliary Power Consumption       | 5.5kW                                                                                                       |
| Operating Modes                   | Grid-independent / Standalone (islanding mode) / Backup (as applicable)                                     |
| BATTERY PARAMETERS                |                                                                                                             |
| Cell Type                         | Prismatic LFP                                                                                               |
| Cell Capacity                     | 314 Ah                                                                                                      |
| Cell Voltage (Nominal)            | 3.2 V                                                                                                       |
| Series Configuration Per Pack     | 1P52S / 166.4 V                                                                                             |
| Number of Battery Packs           | 8 * 1P52S (1P 416S)                                                                                         |
| Total Cells                       | 416 cells (52*8)                                                                                            |
| Energy Per Pack                   | 52.25 kWh                                                                                                   |
| Cell Cycle Life                   | ≥6,000 cycles @ 70% SOH                                                                                     |
| Expected System Life              | 10 years (typical C&I duty)                                                                                 |
| THERMAL MANAGEMENT                |                                                                                                             |
| Cooling Type                      | Liquid cooling                                                                                              |
| Chiller Capacity                  | 8 kW                                                                                                        |
| Coolant Type                      | R513A                                                                                                       |
| Coolant Operating Range           | -30°C ~ 55°C (ambient)                                                                                      |
| Battery Operating Temperature     | -10°C to +55°C (optimal 10-45°C)                                                                            |
| Temperature Monitoring            | Cell voltage/temp monitoring; cooling system monitoring described                                           |
| Coolant Circulation               | Main+branch pipeline architecture                                                                           |
| PHYSICAL                          |                                                                                                             |
| Product Dimensions (W × D × H)    | 1400 × 1450 × 2400 mm (without PCS)                                                                         |
| Cabinet Weight                    | ≈3.6 t                                                                                                      |
| Battery Pack Weight               | <350kg                                                                                                      |
| Chiller Unit Weight               | ≈ 133 kg                                                                                                    |
| IP Rating                         | IP54                                                                                                        |
| Altitude                          | ≤4000 m (derating required above 2000 m)                                                                    |
| BMS & SAFETY                      |                                                                                                             |
| BMS                               | Integrated two-level BMS for pack and system monitoring and protection                                      |
| Protection Functions              | Over-voltage, under-voltage, over-current, short-circuit, over-temperature and under-temperature protection |
| Emergency Stop                    | Integrated emergency shutdown / E-stop                                                                      |
| Fire Protection                   | Cabin-level aerosol + water-based fire suppression interface                                                |
| STANDARDS & COMPLIANCE            |                                                                                                             |
| IEC 61000                         | Electromagnetic compatibility (EMC)                                                                         |
| IEC 62477                         | Safety of power electronic converter systems (PCS)                                                          |
| IEC 62619                         | Safety of secondary lithium-ion cells & batteries                                                           |
| WARRANTY & SUPPORT                |                                                                                                             |
| Warranty                          | 5-year battery · 12–24 months balance-of-system · 3-year PCS                                                |
| Support                           | 24/7 technical support · remote diagnostics · on-site ≤ 48 h (critical faults)                              |

Applications: Peak shaving | Load shifting | Backup power (UPS) | Grid support | Renewable integration | Industrial facilities