

Semi-Solid State LFP Battery ESS



RT 16076MPlus

IP65



PRODUCT FEATURES



≥ 16000
Cycle Life@25°C



200A
Fast Charge/Discharge, maximum
discharge current 200A



Smart BMS
Intelligent management &
maintenance of battery systems



Remote Monitoring
Real time monitoring of
electricity usage and
equipment operation



Multiple Safety
Protection
MOS, DC Breaker



Solid-State Safety
Ultra safe as solid design
prevents leakage and fire hazards



Configuration Upgrade
Automatic self-heating with
built-in heating module (optional)



Voltage Balancing
Voltage Balancing between
Battery Cells & Battery Pack

Semi-Solid State BESS Technical Specifications

RAYSTECH

Model		RT16076MPlus
Battery Type		Semi-solid State
Nominal Energy		16.076kWh
Usable Energy*		14.95kWh
Nominal Capacity		314Ah
Nominal Voltage		51.2V
Operating Voltage		48~56V
Under Lead-acid Mode	Recommended Current	80A
	Recommended Voltage	48~55.2V
Recommended Charge&Discharge Current		100A/100A
Max Charge/Discharge Current		200A/200A
Peak Discharge Current		240A(3S)
Peak Discharge Power		12kW(3S)
Recommended Depth of Discharge (DOD)		93%
Charging Temp. Range		From 0~55 C
Discharging Temp. Range		From -20~55 C
Cycle Life		16000 @SOH70%
Scalability		40 Parallel
WIFI Module		built-in
Communication		CAN/ RS485
IP Rating		IP65
Recommended Humidity		5%~95%(No condensed water)
Cooling Type		Natural cooling
Color		White
Installation		Floor-mounting
Net Weight		124±2kg
Dimension(L*W*D)		510*750*235mm
Protection		Over-current/Over-voltage/Short circuit/Under-voltage/Over temperature
Top Cover		Yes (Optional)
Heating Module		Yes (Optional)
Application		Residential, C&I energy storage systems
Certification		UN38.3/CE/IEC 62619 (Cell)

*Total Energy/Usable Energy measured under specific conditions from Raystech 0.2C CC-CV and based on recommended DOD(93%); Information may be subject to change without notice during product improvement.
Testing conditions based on temperature 25 C at the beginning of life.

Core Advantages

- Ultimate Safety:** Semi-solid electrolyte technology eliminates leakage and significantly mitigates thermal runaway and fire risks.
- Smart Balancing:** Advanced BMS ensures real-time voltage equalization across cells and packs for optimized longevity.
- Precision Monitoring:** Dynamic SOC calibration provides ultra-accurate state-of-charge readings.
- Flexible Integration:** Supports "Batch-Mixing," allowing seamless parallel connection of batteries from different production cycles.