

Y52 2.0

Energy storage battery module



52.25kWh

High Energy



High safety

Multi-factor safety
matrix analysis and
measures



High convenience

maintenance
without coolant
draining



<3°C

Intelligent
Temperature control

Datasheet

Item	Specifications	Remark
Product code	Y52 2.0	
Configuration	1P52S	
Rated energy	52.25kWh	100%DOD,25°C,0.5C
Rated voltage	166.4V	
Operating voltage range	130V~189.8V	For cell 2.5V~3.65V
Dimension	1135mm×779mm×250mm	
Mass	348kg	
Rated charge power	26.12kW	According to current map
Rated discharge power	26.12kW	According to current map
Short overload chargingcurrent	314A	60s
Short overload chargingcurrent	314A	60s
IP level of enclosure	IP67	
Insulation standard	≥1000Ω/V	2500VDC
Withstand	No breakdown, No flashover	4500VDC
Discharge temperature	-30°C~55°C	
Charging temperature	0~55°C	
Thermal management type	Liquid cooling / heating	
Fire protection device	Aerosol	
Operating humidity	5%-90%RH	
Altitude	≤4000m	
Certification	UL9540A, UN38.3, GB/T 36276-2018, RoHS, REACH	

Product features

High Safety

- IP67 high protection rating
- Grid-based thermal isolation to prevent heat spread
- Equipped with module-level fire detection and thermal runaway suppression measures
- Automatic detection of hazardous gas emissions, enabling early risk warning
- High mechanical strength, with resistance to harsh conditions such as drops, vibration, impact, and compression

High Flexibility

- High volumetric energy density
- Compatible with mainstream market BMS
- Maintenance of key components without disassembly
- Utilizes self-sealing pipeline technology for maintenance-free liquid drainage
- Supports arrangement in mainstream commercial and industrial cabinets as well as standard 20-foot containers

Long Cycle Life

- 20 years of maintenance-free operation
- Featuring a fully parallel flow channel design
- High-efficiency balancing capability
- Equipped with high-performance, long-lifespan "wending" battery cells

Relevant Certification

