

## Semi-Solid State Lithium-ion Battery ESS

# RT5427

- Higher Safety Protection
- Faster Dis/Charging Speed
- High Inverter Compatibility
- Intelligent Built-in BMS
- 16pcs Connections in Parallel



## FEATURES

  
**8000**  
Cycle Life@25°C

  
**Solid-State**  
LFP Battery Cells

  
**5.43kWh**  
Capacity

  
**1C**  
Discharging Rate

  
**7680W**  
Peak Power

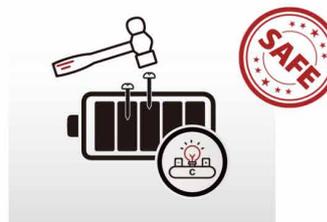
  
**Increase 8%**  
Energy Density



The test of drill



The test of shear

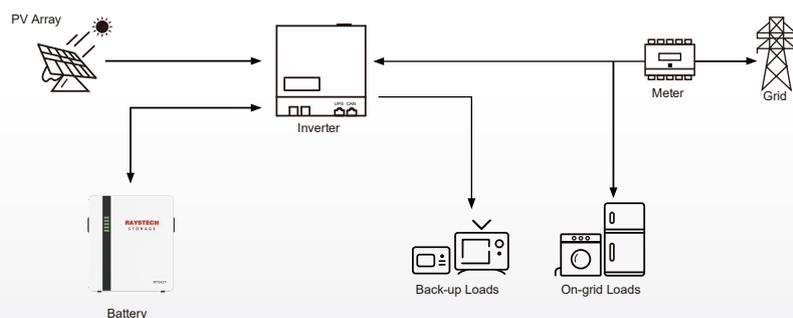


The test of acupuncture



The test of squeeze

## APPLICATION



## Semi-Solid State BESS Technical Specifications

Product Type		RT5427
Total Energy*		5.43kWh
Battery Capacity		53Ah+53Ah
Max.recommended DOD		93%
Max Charge Power		5.12kW
Max Discharge Power		7.68kW
Voltage		48~56Vd.c
Nominal Voltage		51.2Vd.c
Nominal Charging Current		80A
Nominal Discharging Current		100A
Max Discharging Current		150A(3s.)
Max. Charge Voltage		55.6Vd.c
Weight( N.W.)		47kg
Dimension(mm)(L*W*H)		530*480*165mm
Operating Condition		Indoor
Operating Temperature (cell)	Charge	From 0~50 °C
	Discharge	From -10~55 °C
Humidity		5%~85%(No condensed water)
Over Voltage Category		II
Cooling Type		Natural cooling
Installation		Wall mounting/Ground Installation
IP rating		IP 20
Protective Class		I
Max. Connection Number		16P
Communication		CAN/ RS485
Protection Mode		Dual hardware protection
Battery Protection		Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature
Safety		Cell UL 1973
		CE/TUV
Hazardous Material Classification		9
Transportation		UN 38.3
Product Warranty		10 years warranty

Testing conditions based on temperature 25 °C at the beginning of life.

\*Total Energy/Usable Energy measured under specific conditions from RAYSTECH 0.5C CC-CV.