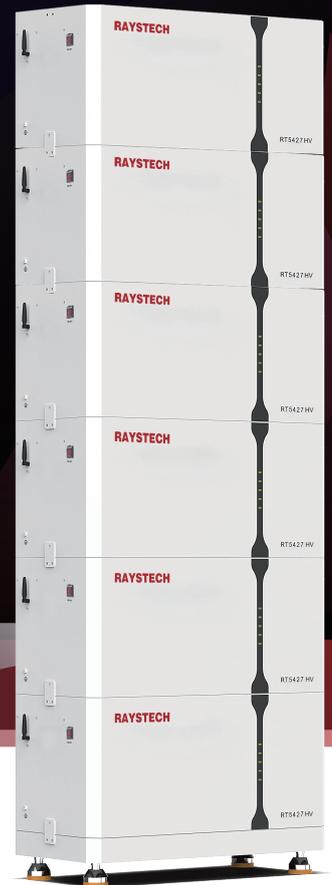


Semi-Solid State Lithium-ion Battery ESS

RT5427 HV/SHV 5.43-32.58kWh Stackable

- Higher Safety Protection
- Faster Dis/Charging Speed
- High Inverter Compatibility
- Intelligent Built-in BMS
- 6pcs Connections in Series
- -45°C~55°C (Optional)



FEATURES



8000
Cycle Life@25°C



Solid-State
LFP Battery Cells



53Ah
single battery



1C
Discharging Rate



Increase 8%
Energy Density



The test of drill



The test of shear

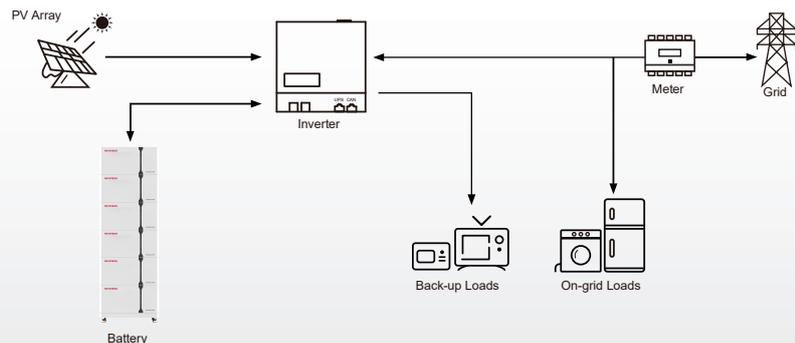
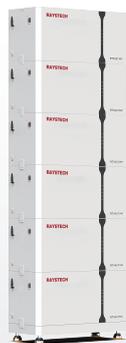


The test of acupuncture



The test of squeeze

APPLICATION



<https://www.raystechgroup.com>

Tel : +86-22-59901199

Email : sales@raystechgroup.com

ADD: 13TH Floor Tianqi International Mansion, Central Business District, Binhai New Area, Tianjin, China

Semi-Solid State BESS

Technical Specifications

RAYSTECH

						
Product Model	RT5427 HV / RT5427 SHV					
Total Energy*	5.43kWh	10.86kWh	16.29kWh	21.72kWh	27.15kWh	32.58kWh
Battery Capacity	53Ah					
Max.recommended DOD	93%					
Max Dis/Charge Power	6.0kW for 3S	12.3kW for 3S	18.4kW for 3S	24.6kW for 3S	30.8kW for 3S	36.9kW for 3S
Voltage	96~112Vd.c	192~224Vd.c	288~336Vd.c	384~448Vd.c	480~560Vd.c	576~672Vd.c
Nominal Voltage	102.4Vd.c	204.8Vd.c	307.2Vd.c	409.6Vd.c	512.5Vd.c	614.4Vd.c
Nominal Dis/charging Current	50A/50A					
Max Charging Current	60A(3s)					
Max Discharging Current	60A(3s)					
Max. Charge Voltage	115.2Vd.c	230.4Vd.c	345.6Vd.c	460.8Vd.c	576Vd.c	691.2Vd.c
Weight(N.W.)	53kg/54kg	106kg/108kg	159kg/162kg	212kg/216kg	265kg/270kg	318kg/324kg
Dimension(mm)(L*W*H)	660*300*320mm	660*300*640mm	660*300*960mm	660*300*1280mm	660*300*1600mm	660*300*1920mm
Operating Condition	Indoor&Outdoor(with shelter)					
Operating Temperature (cell)	Charge	0~55 C				
	Discharge	-20~55 C				
Ambient Temperature	RT5427 HV:-20~55 C			RT5427 SHV:-45~55 C		
WiFi Frequency Range	2400MHz~2483MHz					
Humidity	<60%(No condensed water)					
Over Voltage Category	II					
Cooling Type	Natural cooling					
Installation	Ground Installation					
IP rating	IP65					
Protective Class	I					
Max. Connection Number	6S					
Communication	CAN/ RS485					
Protection Mode	Hardware&software protection					
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature					
Safety	Cell UL TUV					
	PACK CE-RED & IEC62619 & IEC62477					
Hazardous Material Classification	9					
Transportation	UN 38.3					
Product Warranty	10 years warranty All information contained in this document is subject to change without notice 1)For better battery life cycles,we suggest charge in 30A(0.6C @25°C) 2)For better battery life cycles,we suggest discharge in 30A(0.6C @25°C) 3)Peak Current excludes repeated short duration (less than 100ms) of current pattern.					

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

*Total Energy/Usable Energy measured under specific conditions from RAYSTECH 0.2C CC-CV.