

Smart String Energy Storage System

Applications

- Base Stations Telecommunications
- Solar & Wind Energy Storage
- UPS
- Data Centers
- Electric Power Systems
- All-purpose



Electrical Parameters (25°C)						
Rated Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Rated Capacity (C _s)	100Ah@25°C	200Ah@25°C	300Ah@25°C	400Ah@25°C	500Ah@25°C	600Ah@25°C
Energy	5120Wh	10240Wh	15360Wh	20480Wh	25600Wh	30720Wh
Months Self Discharge	<3%	<3%	<3%	<3%	<3%	<3%
Charge Efficiency	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C
Discharge Efficiency	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C
Terminal Diameter	M8	M8	M8	M8	M8	M8
Internal resistance (Fully charged, 25°C)	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Cycle life	4000 cycles @ 0.2C 100%D.O.D					
Capacity affected by temperature						
40°C	101%					
25°C	100%					
0°C	90%					
-10°C	75%					
Operating temperature range						
Nominal operating temperature	25°C± 3°C (77°F± 5°F)					
Discharge	- 20°C- 60°C (-4°F - 140°F)					
Charge	0°C- 45°C (32°F - 113°F)					
Storage	0°C- 40°C (32°F - 104°F)					
Water Dust Resistance	IP50					
Charge Voltage	56.8V					
Standard Charge Mode (25°C±2°C, <75%RH)	0.2C A Constant Current to 57V, then Constant Voltage 57V . until the current drops to 0.02CA, before use, rest 30 minutes					
Charge Current	50A	100A	150A	200A	250A	300A
Charge Cut off Voltage						
Nominal operating temperature						
Continuous Discharge Current	100A	160A	240A	320A	400A	480A
Maximum Pulse Current	150A (<1S)	320A (<1S)	480A (<1S)	640A (<1S)	800 (<1S)	960A (<1S)
Discharge Cut Off Voltage	44.8V					
Communicate Protocol (optional)	RS485/CAN					
SOC (optional)	Screen/LED/PC Software					
Application connection	1 string 1 parallel					
Mechanical	Cells	16 Strings				
Approx. Weigh of Battery	52Kg					
Dimension(LxWxH)	640x400x160mm					
Dimension(LxWxH)	640x400x314mm(Including bottom bracket)					

High voltage storage system

Features

- 16 modules in parallel
- Each module can be independently managed and operated to ensure the safety of the system
- Pulley bottom, manual switch, and visual supervision interface
- 4 times long static and 8 consistency screening make the battery more durable
- Nano-coating and self-healing technology construct the LPF channel to add a firewall to the battery



Electrical Parameters (25°C)						
Rated Voltage	51.2V	102.4V	153.6V	204.8V	256V	307.2V
Rated Capacity (C _s)	100Ah@25°C	100Ah@25°C	100Ah@25°C	100Ah@25°C	100Ah@25°C	100Ah@25°C
Energy	5120Wh	10240Wh	15360Wh	20480Wh	25600Wh	30720Wh
Months Self Discharge	<3%	<3%	<3%	<3%	<3%	<3%
Charge Efficiency	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C	99.5%@ 0.2C
Discharge Efficiency	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C	96-99%@ 1C
Terminal Diameter	M8	M8	M8	M8	M8	M8
Internal resistance (Fully charged, 25°C)	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Cycle life	4000 cycles @ 0.2C 100%D.O.D					
Capacity affected by temperature						
40°C	101%					
25°C	100%					
0°C	90%					
-10°C	75%					
Operating temperature range						
Nominal operating temperature	25°C± 3°C (77°F± 5°F)					
Discharge	- 20°C- 60°C (-4°F - 140°F)					
Charge	0°C- 45°C (32°F - 113°F)					
Storage	0°C- 40°C (32°F - 104°F)					
Water Dust Resistance	IP50					
Charge Voltage	56.8V					
Standard Charge Mode (25°C±2°C, <75%RH)	0.2C A Constant Current to 57V, then Constant Voltage 57V . until the current drops to 0.02CA, before use, rest 30 minutes					
Charge Current	20A	20A	20A	20A	20A	20A
Maximum Charge Current	50A	50A	50A	50A	50A	50A
Charge Cut off Voltage						
Nominal operating temperature						
Continuous Discharge Current	100A	100A	100A	100A	100A	100A
Maximum Pulse Current	200A (<1S)	200A (<1S)	200A (<1S)	200A (<1S)	200A (<1S)	200A (<1S)
Discharge Cut Off Voltage	44.8V					
Communicate Protocol (optional)	RS485/CAN					
SOC (optional)	Screen/LED/PC Software					
Application connection	1 string 1 parallel					
Mechanical	Cells	16 Strings				
Approx. Weigh of Battery	52Kg					
Approx. Weigh of Controller	20Kg					
Dimension(LxWxH)	640x400x160mm					
Dimension(LxWxH)	640x400x314mm(Including bottom bracket)					