

# ST2752UX-US

Liquid Cooling Energy Storage System



## LOW COSTS

- Highly integrated ESS for easy transportation and O&M
- All pre-assembled, no battery module handling on site
- 8 hour installation to commission, drop on a pad and make electrical connections



## SAFE AND RELIABLE

- Integrated DC/DC converters actively limit fault current
- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi level battery protection layers formed by discreet standalone systems offer impeccable safety



## EFFICIENT AND FLEXIBLE

- Intelligent liquid cooling ensures higher efficiency and longer battery cycle life
- Modular design supports parallel connection and easy system expansion
- IP54 outdoor cabinet and optional C5 anti-corrosion



## SMART AND ROBUST

- Fast state monitoring and faults record enables pre-alarm and faults location
- Integrated battery performance monitoring and logging



Type designation	ST2752UX-US
<b>Battery Data</b>	
Cell type	LFP
Battery capacity (BOL)	2752 kWh
Battery voltage range	1036.8 ~ 1401.6 V
<b>General Data</b>	
Dimensions of battery unit (W * H * D)	9340*2600*1730 mm
Weight of battery unit	26,400 kg
Degree of protection	IP 54 / Type 3R
Operating temperature range	-30 to 50 °C (> 45 °C derating)
Relative humidity	0 – 95 % (non-condensing)
Max. working altitude	3000 m
Cooling concept of battery chamber	Liquid cooling
Fire safety standard / Optional	Fused sprinkler heads, NFPA 69 explosion prevention and ventilation IDLH gases
Communication interfaces	RS485, Ethernet
Communication protocols	Modbus RTU, Modbus TCP
Compliance	UL9540, UL9540A / NFPA 855
<b>2 HOURS APPLICATION-ST11000kWh-5000kW-MV-2h-US</b>	
BOL kWh (DC)	11,008 kWh
ST2752UX Quantity	4
PCS Model	SC5000UD-MV-US
<b>4 HOURS APPLICATION-ST22015kWh-5000kW-MV-4h-US</b>	
BOL kWh (DC)	22,016 kWh
ST2752UX Quantity	8
PCS Model	SC5000UD-MV-US
<b>Grid Connection Data</b>	
Max.THD of current	< 3 % (at nominal power)
DC component	< 0.5 % (at nominal power)
Power factor	> 0.99 (at nominal power)
Adjustable power factor	1.0 leading ~ 1.0 lagging
Nominal grid frequency	60 Hz
Grid frequency range	55 ~ 65 Hz
<b>Transformer</b>	
Transformer rated power	5,000 kVA
LV / MV voltage	0.9 kV / 34.5 kV
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

