



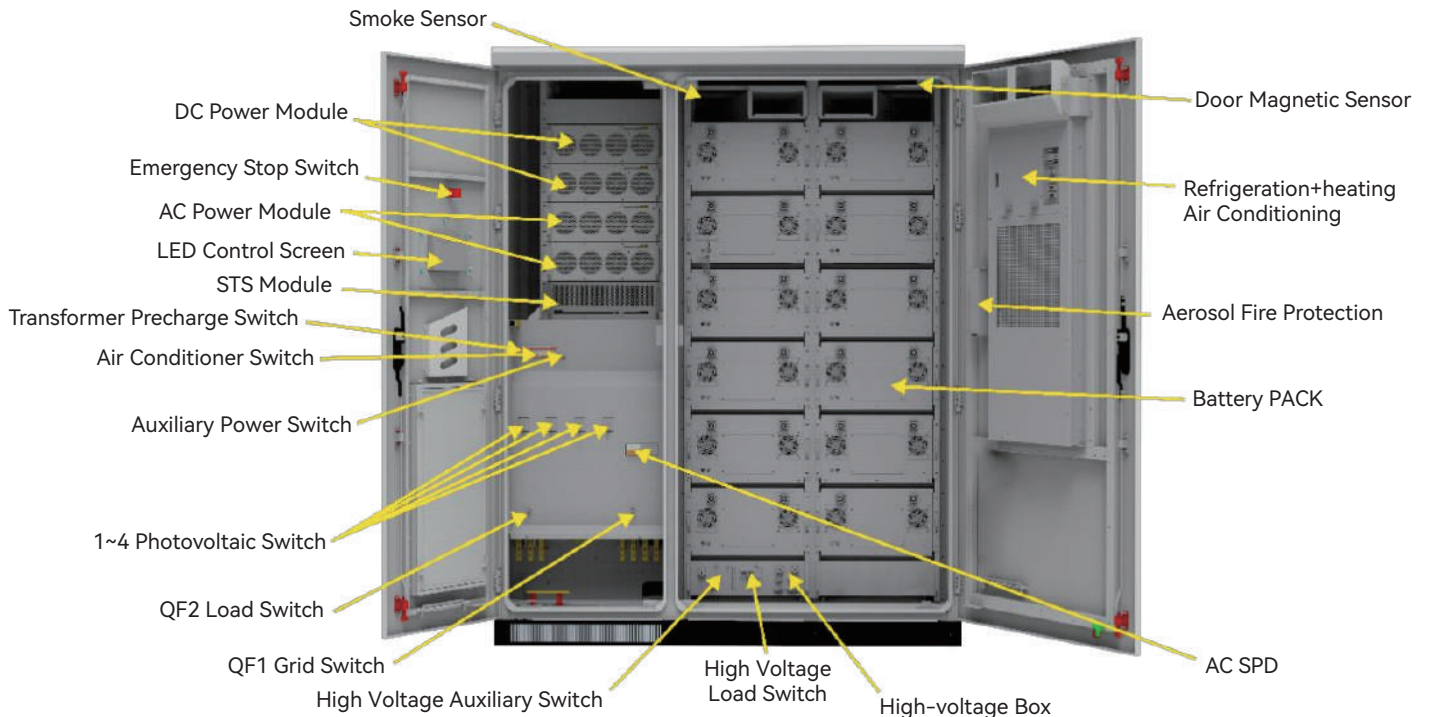
## PARAMETER TABLE OF ENERGY STORAGE SYSTEM

Model	YL100-200-ESS (DC100)(200kWh)
Battery rated energy storage capacity	200kWh
System rated voltage	714V
System voltage range	627.2V~806.4V
Battery type	Lithium iron phosphate battery (LFP)
Battery pack series and parallel connection	1P*15S*15S
Maximum charge and discharge current	140A
Rated AC power	100kW
Rated AC current	144A
Rated AC voltage	400V, 3W+N+PE/3W+PE
Rated AC frequency	50/60Hz
Current total harmonic distortion rate THDI	<5% (rated power)
Power factor	-1 lead~+1 lag
Voltage total harmonic distortior THDU	<3% (linear load)
Degree of protection	IP54
Protection leve	I
Isolation method	Transformer isolation
Power consumption during shutdown	<100W (without transformer)
Show	Touch LCD touch screen
Relative humidity	0~95%(no condensation)
Noise	Less than 70dB
Ambient temperature	-25°C~60°C (Derating above 45°C)
Cooling method	Intelligent air cooling
Altitude	2000m (over 2000m derating)
BMS communication	CAN
EMS communication	Ethernet/ 485
Dimensions (W*D*H)	1800*1200*2300mm
Weight (approx.)	2600kg

## BATTERY SYSTEM PARAMETERS

Cell parameters	
Battery type	Lithium iron phosphate battery(LFP)
Nominal voltage	3.2V
Voltage range	2.8V~3.6V
Nominal capacity	280Ah
Maximum operating temperature range, charging	0~50°C
Maximum operating temperature range, discharge	-10~50°C
Cell series and parallel connection	1P15S
Rated energy	13.333kW
Nominal voltage	48V
Voltage range	42V~54V
Weight (approx.)	100kg
Overall dimensions (W*D*H)	420*745*226mm
Rated energy storage	200kWh
System rated voltage	714V
System voltage range	627.2V~806.4V
Series and parallel mode	1P*15S*15S
Number of electrical boxes included	15
Weight (approx.)	1500kg

### Internal Structure of The Cabinet



## CONVERTER MODULE PARAMETERS

Model	YULI-50AC
Rated power	50kW
Maximum power	55kW
DC operating voltage range	500V~950V
DC side full load voltage range	500V~950V
Maximum DC current	110A
Rated AC voltage	400Vac, 3W+N+PE/3W+PE
Rated frequency	50/60Hz, (±5Hz)
Rated AC current	72A
Overload capacity	110%, normal operation; 120%, 1 minute
Current distortion	< 5 % (rated power)
Power factor adjustment range	-1 lead~+1 lag
With unbalanced load capability	100%
Compatible battery	Lithium battery/lead acid/photovoltaic module
Charging method	According to BMS instruction/three-stage/MPPT
Operating mode	Constant current, constant power, MPPT, AC voltage source, DC voltage source, VSG
Maximum efficiency	98.2%
Dimensions (W*D*H)	483 (not including mounting lug 440 )*600*150mm
Weight (approx.)	35kg
Isolation method	Non-isolated
Degree of protection	IP21
Operating temperature	-25°C~+60°C (>45°C derating)
Relative humidity	0~95% (no condensation)
Cooling method	Intelligent air cooling
Noise	<70dB
Altitude	3000m (>3000m derating)
Communication Interface	RS485/CAN (optional)

## DC CONVERTER MODULE PARAMETERS

Model	YULI-50DC
Rated DC power	50kW
Maximum DC power	55kW
DC working voltage range	200V~1000V
Low voltage side full load voltage range	312V~850V
Maximum current at low voltage side	80A*2
Low voltage side input channels	2 (2 channels can be independent, can be paralleled as 1 channel)
High voltage side full load voltage range	500V~900V
Maximum DC current on high voltage side	110A
High voltage side input channels	1
Compatible battery	Lithium battery/lead acid/photovoltaic module
Operating mode	Constant voltage, constant current, constant power, MPPT
Maximum conversion efficiency	98.8%
Dimensions (W*D*H)	483 (not including mounting lug 444)*600*150mm
Weight (approx.)	25kg
Isolation method	Non-isolated
Degree of protection	IP21
Operating temperature	-25°C~+60°C (>45°C derating)
Relative humidity	0~95% (no condensation)
Cooling method	Forced air cooling
Noise	<70dB
Altitude	3000m (>3000m derating)
Communication interface	RS485/CAN (optional)

## PRECISION AIR CONDITIONING PARAMETERS

<b>Model</b>	<b>YULI-AC3000</b>
<b>Electrical parameters</b>	
Rated working voltage	220Vac
Rated cooling current	6.4 A
Maximum operating current	10A
Rated operating frequency	50Hz
Dimensions (H*W*D)	1350×550×250mm
Weight	40kg
Degree of protection	IP54
Cooling capacity	3000W
Heating capacity	3000W
Air volume	850m <sup>3</sup> /h
<b>Refrigeration</b>	
Cooling start point	22 °C ~ 44 °C (can be set)
Hysteresis	Default 6 °C (can be set)
<b>Heating</b>	
Heating on point	- 5 °C ~ 16 °C (can be set)
Hysteresis	Default 10°C (can be set)
<b>Dehumidification</b>	
Dehumidification start point	50 %~ 99 % (can be set)
Dehumidification stop point	45 %~ 95 % (can be set)
<b>Alarm function</b>	
High temperature alarm in the cabinet	30°C~60°C (can be set)
Low temperature alarm in the cabinet	- 45°C~10°C (can be set)
High humidity alarm in the cabinet	0%~100% (can be set)

Note: The actual parameters are set before leaving the factory according to customer needs.

## ACCESS CONTROL SWITCH PARAMETERS

Name	Parameter
Rated voltage	AC-15: 380V DC-13: 220V
Rated current	AC-15: 0.79A DC-13: 0.14A
Rated insulation voltage	415V
Rated impulse withstand voltage	2.5kV
Operating frequency	Mechanical/Electrical: 20 times/min
Use environment	Temperature: -5°C~+40°C Relative humidity <90% RH (no condensation)

## SMOKE DETECTOR PARAMETERS

Name	Parameter
Operating voltage	DC12/24V (allowable range 9V~30V)
Working current	Monitoring status: <1mA@DC12V Fire alarm: <30mA@DC12V
Relay output	Normally open, contact capacity 1A 30VDC
Work instructions	The monitoring status red light flashes about once every 6s, Alarm status red light is always on, In fault status, the red light flashes continuously about 2 times every 6s
Use environment	Temperature: -10°C~+65°C Relative humidity <95% RH (no condensation)

## FIREFIGHTING AEROSOL PARAMETERS

Model	YULI-QRR250
<b>Technical Parameters</b>	
Drug weight	250g
Equipment weight	2600g
Size	ø127*145mm
Extinguishing time	≤30s
Nozzle temperature	≤200°C
Actual fire extinguishing efficiency	≤100g/m <sup>3</sup>
Working environment temperature range	-40°C~+70°C
Relative humidity	≤95%
<b>TH type (thermal line) start mode parameters</b>	
Start temperature	175°C
Expiry date	5 years

## LOCAL CONTROLLER PARAMETERS

Product number	Lotus - ESS
Power input	DC 12V
Output control	3-way isolated output switch
Input control	6-way isolated input switch
Serial communication	2-way isolated RS232, 4-way isolated RS485
Fieldbus	2-way CAN bus interface
Ethernet port	1 10/100M Ethernet port (RJ45)
Extended storage	1 U disk port, 1 SD card port
Audible alarm	1 controllable buzzer
Program representation	1 running indicator, 1 status indicator, 1 alarm indicator
Abnormal representation	1 hardware watchdog timer
Real time clock	1 set of RTC real-time clock

## OVERALL CONFIGURATION LIST OF YULI-100TS(DC100)(215KWH) OUTDO OR CABINET ENERGY STORAGE SYSTEM

Name	Model	Unit	Quantity	Remark
Battery system	280Ah, 200kWh	Set	1	With control box
Energy storage converter	YULI-50AC	Tower	2	Modular
Photovoltaic controller	YULI-50DC	Tower	2	Modular
Air conditioning system	AC3000 220±15%VAC~50Hz	Set	1	Precision air, conditioning
Fire fighting system	QRR0.3G/S-Q	Set	1	Thermal wire activated, type
Auxiliary system	Access control, etc.	Set	1	Auxiliary equipment
Management system	Lotus-ESS	Set	1	Composed of BMS and EMS