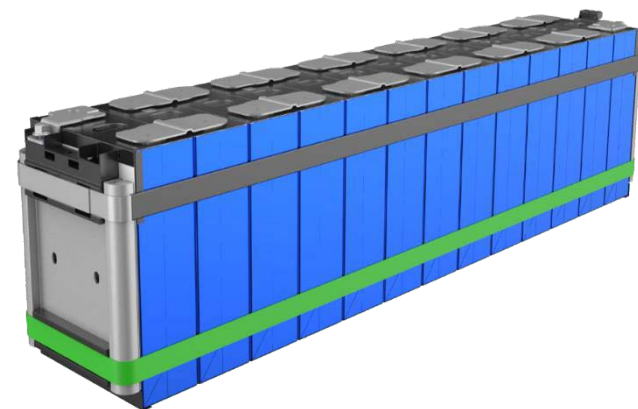


Commercial Battery Pack and Products Technical Data

280Ah-1PnS Module SPEC

Items	280Ah-1P7S	280Ah-1P8S	280Ah-1P12S	280Ah-1P13S
Cell type	LFP	LFP	LFP	LFP
Cell	3.2V/280Ah	3.2V/280Ah	3.2V/280Ah	3.2V/280Ah
Nominal capacity	280Ah	280Ah	280Ah	280Ah
Nominal voltage	22.4 V	25.6 V	38.4 V	41.6 V
Nominal energy	6.272 kWh	7.168 kWh	10.752 kWh	11.648 kWh
Charge-discharge rate	0.5P/0.5P	0.5P/0.5P	0.5P/0.5P	0.5P/0.5P
Dimensional	L552*W178*H215mm	L621*W178*H215mm	L911*W178*H215mm	L983*W178*H215mm
Weight	40.5±0.6Kg	46.0±0.6Kg	68.1±0.6Kg	73.5±0.6Kg
W.E.D.	155Wh/kg	156Wh/kg	158Wh/kg	158Wh/kg
Voltage and temperature sampling	Wire harness	Wire harness	Wire harness	Wire harness
Cooling method	Air or Liquid cooling	Air or Liquid cooling	Air or Liquid cooling	Air or Liquid cooling
Anti expansion design	Cushion foam*2PCS	Cushion foam*2PCS	Cushion foam*2PCS	Cushion foam*2PCS
Packaging design	End sheet+steel/ Plastic belt	End sheet+steel/ Plastic belt	End sheet+steel/ Plastic belt	End sheet+steel/ Plastic belt



1P13S Module

1P14S&1P16S&1P20S Air cooling pack

Items	1P14S Pack	1P16S Pack	1P20S Pack
Cell type	3.2V280Ah	3.2V280Ah	3.2V280Ah
Cell	280Ah	280Ah	280Ah
Nominal voltage	44.8V	51.2V	64V
Nominal capacity	12.544Wh	14.336kWh	17.92kWh
Charge-discharge rate	0.5P/0.5P	0.5P/0.5P	0.5P/0.5P
Serial parallel mode	1P7S*2, 共1P14S	1P8S*2, 共1P16S	1P10S*2, 共1P20S
Dimensional	L702*W480*H236mm	L780*W480*H236mm	L909.5*W495*H233mm
Weight	103kg	114kg	139Kg
W.E.D.	121.8Wh/kg	125.8Wh/kg	128.9Wh/kg
BMS	Inside	Inside	Outside
Cooling method	Fan	Fan	Fan
Fire interface	Nozzle	Nozzle	/
High voltage connector	Quick Connector	Quick Connector	Screw
Voltage and temperature sampling	Wire harness	Wire harness	Wire harness
Certificate	GB/T 36276	GB/T 36276	GB/T 36276



1P16 Pack



1P20S Pack

1P36S&1P52S Liquid Cooling Pack SPEC

Items	1P36S	1P52S
Nominal voltage	115.2V	166.4V
Voltage range	100.8~129.6V	145.6~187.2V
Nominal capacity	280Ah	280Ah
Charge-discharge rate	0.5P/0.5P	1C/1C
Nominal energy	32.26kWh	46.59kWh
Dimensional	L1060*W630*H240mm	L1160*W810*H240mm
Weight	222kg	327kg
W.E.D.	145Wh/kg	140Wh/kg
Cell	3.2V280Ah, LFP	3.2V280Ah, LFP
Serial parallel mode	3*1P12S	4*1P13S
Cover	Composite materials	Composite materials
Box body	Aluminium Profile	Aluminium Profile
Cooling method	Liquid cooling	Liquid cooling
IP level	IP67	IP67
Certificate	GB/T 36276	GB/T 36276



1P52S Pack

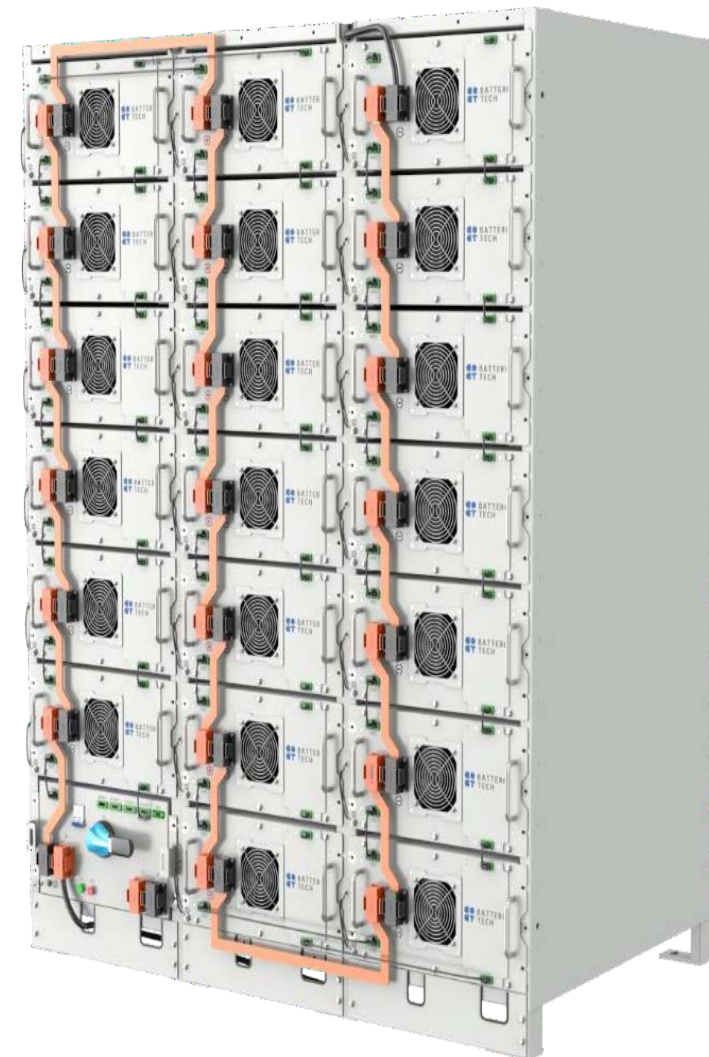
1P238S&1P272S&1P340S Air cooling rack SPEC

Items	1000V Rack (Walk-in)	1000V Rack (Non walk-in)	1500V Rack (Non walk-in)
Nominal voltage	761.6V	768V	1088V
Voltage range	666.4~856.8V	672~864V	1120~1124V
Nominal capacity	280Ah	280Ah	280Ah
Charge-discharge rate	0.5P/0.5P	0.5P/0.5P	0.5P/0.5P
Nominal energy	213.25kWh	215.04kWh	304.64kWh
Depth of discharge	8%~98%	8%~98%	8%~98%
Dimensional	W1140*D725*H2350mm	W1140*D800*H2110mm	W1026*D938*H2350mm
Weight	2015kg	1972kg	2600kg
Cell	3.2V280Ah, LFP	3.2V280Ah, LFP	3.2V280Ah, LFP
Pack	1P14S	1P16S	1P20S
Serial parallel mode	17*1P14S 1P238S	15*1P16S 1P240S	17*1P20S 1P340S
BMS system	1 Master+17 slaver	1 Master+15 slaver	1 Master+17 slaver
Cooling method	Air cooling	Air cooling	Air cooling
Rack	2 Column 9 Layer	2 Column 8 Layer	2 Column 9 Layer
Certificate	GB/T 36276	GB/T 36276	GB/T 36276



1P364S&1P416S&1P400S Air cooling rack SPEC

Items	1500V Rack (Walk-in)	1500V Rack (Non walk-in)	1500V Rack (Non walk-in)
Nominal voltage	1164.8V	1331.2V	1280V
Voltage range	1019.2V~1310.4V	1164.8V~1497.6V	1120~1440V
Nominal capacity	280Ah	280Ah	280Ah
Charge-discharge rate	0.5P/0.5P	0.5P/0.5P	0.5P/0.5P
Nominal energy	326.14kWh	372.74kWh	358.4kWh
Depth of discharge	8%~98%	8%~98%	8%~98%
Dimensional	W1555*D725*H2350mm	W1555*D800*H2350mm	W1540*D938*H1858mm
Weight	3065kg	3350kg	3150kg
Cell	3.2V280Ah, LFP	3.2V280Ah, LFP	3.2V280Ah, LFP
Pack	1P14S	1P16S	1P20S
Serial parallel mode	26*1P14S 1P364S	26*1P16S 1P416S	20*1P20S 1P400S
BMS system	1 Master+26 slaver	1 Master+26 slaver	1 Master+20 slaver
Cooling method	Air cooling	Air cooling	Air cooling
Rack	3 Column 9 Layer	3 Column 9 Layer	3 Column 7 Layer
Certificate	GB/T 36276	GB/T 36276	GB/T 36276



Outdoor Liquid Cooling Rack SPEC

Items	Outdoor Liquid Cooling Rack
Nominal voltage	1331.2V
Voltage range	1164.8~1497.6V
Nominal capacity	280Ah
Nominal energy	372.73kWh
Charge-discharge rate	1C/1C
Dimensional	W1360*D1300*H2290mm
Weight	3500kg
W.E.D.	106.5Wh/kg
Cell	3.2V280Ah, LFP
Serial parallel mode	1P416S
Cooling method	Liquid cooling
IP level	IP55
Fire fighting system	Pack level



45ft 5.218MWh Air cooling container SPEC

Items	45ft Air cooling container
Nominal voltage	1331.2V
Voltage range	1164.8~1497.6V
Nominal capacity	280Ah
Nominal energy	5.218MWh
Charge-discharge rate	0.5P/0.5P
Serial parallel mode	14Rack(1P416S)
Dimensional	12192mm*2438mm*2896mm
Weight	58t
Cooling method	Liquid cooling
IP level	IP54
Fire fighting system	Container level



20ft 3.72MWh Liquid Cooling Container SPEC

Items	20ft Liquid cooling container
Nominal voltage	1331.2V
Voltage range	1164.8~1497.6V
Nominal capacity	280Ah
Nominal energy	3.727MWh
Charge-discharge rate	0.5P/0.5P
Serial parallel mode	10 Rack(1P416S)
Dimensional	6058mm*2500mm*2896mm
Weight	35t
Cooling method	Liquid cooling system
IP level	IP54
Fire fighting system	Pack or Container level



Cell&Pack&Rack Certificate

Items	Standard	50Ah	70Ah	280Ah	1P16S Air Cooling Pack	1P52S Liquid Cooling Pack	1P416S Air Cooling Rack	1P416S Liquid Cooling Rack
CB	IEC 62619	√	√	√	√	√	√	√
TUV Mark	IEC 62619	-	√	-	√	√	√	√
UN38.3	UN38.3	√	√	√	√	√	√	√
UL1973	UL 1973	√	√	√	√		√	
UL9540A	UL9540A	√	√	√	√		√	

Certification can be applied by customer required.