



SS TECH

PRODUCT CATALOG

THE NEXT BESS THING



POWERBOX 1.5kWh 24V

Basic battery data

Battery Type	Li-Ion(LFP)
Nominal Capacity (kWh)	1.5
Usable Capacity (kWh)	1.425
Dimensions (W*D*H mm)	475x255x180
Weight (kg)	22
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 180/500
	Max: 180-220 @10min Charge
	Peak: 220-400 @10sec Charge
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 105A, 15°C<T<25°C: 180A, 25°C<T<35°C: 190A, 35°C<T<50°C: 70A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 35A, 0°C<T<15°C: 60A, 15°C<T<40°C: 500A, 40°C<T<50°C: 30A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	600 (internal fuse)
Cooling	Passive cooling
IP rating	IP65
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>4000



POWERBOX 3kWh 51.2V



Battery Type	Li-Ion(LFP)
Nominal Capacity (kWh)	3
Usable Capacity (kWh)	2.85
Dimensions (W*D*H mm)	475x386x180
Weight (kg)	38
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 180/500
	Max: 180-220 @10min Charge
	Peak: 220-400 @10sec Charge
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 105A, 15°C<T<25°C: 180A, 25°C<T<35°C: 190A. 35°C<T<50°C: 70A. T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 35A, 0°C<T<°15°C: 60A, 15°C<T<40°C: 500A, 40°C<T<50°C: 30A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	600 (internal fuse)
Cooling	Passive cooling
IP rating	IP65
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>4000

Basic battery data



POWERBOX 8.9kWh 24V

Basic battery data

Battery Type	Li-Ion(LFP)
Nominal Capacity (kWh)	8.9
Usable Capacity (kWh)	8.5
Dimensions (W*D*H mm)	490x450x260
Weight (kg)	71
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 175
	Max: 176-300 @20min
	Peak: 301-350 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 105A, 15°C<T<25°C: 175A, 25°C<T<35°C: 350A, 35°C<T<50°C: 175A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 70A, 0°C<T<°15°C: 175A, 15°C<T<40°C: 350A, 40°C<T<50°C: 175A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



POWERBOX 15kWh 24V



Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	15
Usable Capacity (kWh)	14.25
Dimensions (W*D*H mm)	795x350x260
Weight (kg)	190
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 293
	Max: 293-320 @20min
	Peak: 321-350 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 120A, 10°C<T<15°C: 180A, 15°C<T<40°C: 293A, 40°C<T<50°C: 240A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 60A, 0°C<T<°15°C: 180A, 15°C<T<40°C: 293A, 40°C<T<50°C: 240A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000

Basic battery data



POWERBOX RM18

Basic battery data

Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	17.8
Usable Capacity (kWh)	16.91
Dimensions (W*D*H mm)	785x450x260
Weight (kg)	130
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 175
	Max: 176-300 @20min
	Peak: 301-350 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 105A, 15°C<T<25°C: 175A, 25°C<T<35°C: 350A, 35°C<T<50°C: 175A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 70A, 0°C<T<°15°C: 175A, 15°C<T<40°C: 350A, 40°C<T<50°C: 175A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



POWERBOX 30kWh 51.2V



Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	30
Usable Capacity (kWh)	28.5
Dimensions (W*D*H mm)	795x640x260
Weight (kg)	210
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 293
	Max: 293-320 @20min
	Peak: 321-350 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 120A, 10°C<T<15°C: 180A, 15°C<T<40°C: 293A, 40°C<T<50°C: 240A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 60A, 0°C<T<°15°C: 180A, 15°C<T<40°C: 293A, 40°C<T<50°C: 240A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000

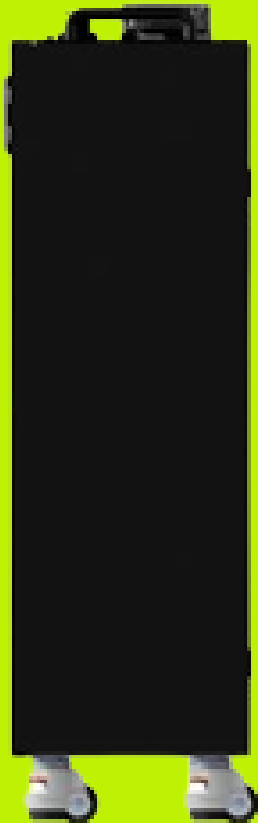
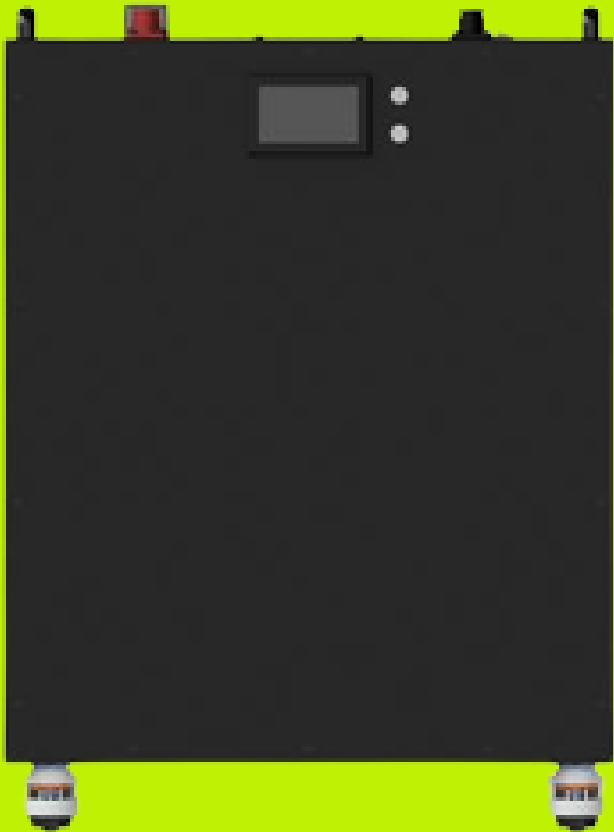
Basic battery data



POWERBOX 30kWh 51.2V STANDALONE

Basic battery data

Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	30
Usable Capacity (kWh)	28.5
Dimensions (W*D*H mm)	795x640x260
Weight (kg)	210
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 293
	Max: 293-320 @20min
	Peak: 321-350 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 120A, 10°C<T<15°C: 180A, 15°C<T<40°C: 293A, 40°C<T<50°C: 240A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 60A, 0°C<T<°15°C: 180A, 15°C<T<40°C: 293A, 40°C<T<50°C: 240A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



POWERBOX 32kWh 51.2V

Basic battery data

Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	32
Usable Capacity (kWh)	30.4
Dimensions (W*D*H mm)	795x470x558 (with castors)
Weight (kg)	240
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 314
	Max: 315-350 @20min
	Peak: 350-400 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 100A, 15°C<T<40°C: 314A, 40°C<T<50°C: 250A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 100A, 0°C<T<°15°C: 250A, 15°C<T<40°C: 314A, 40°C<T<50°C: 250A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



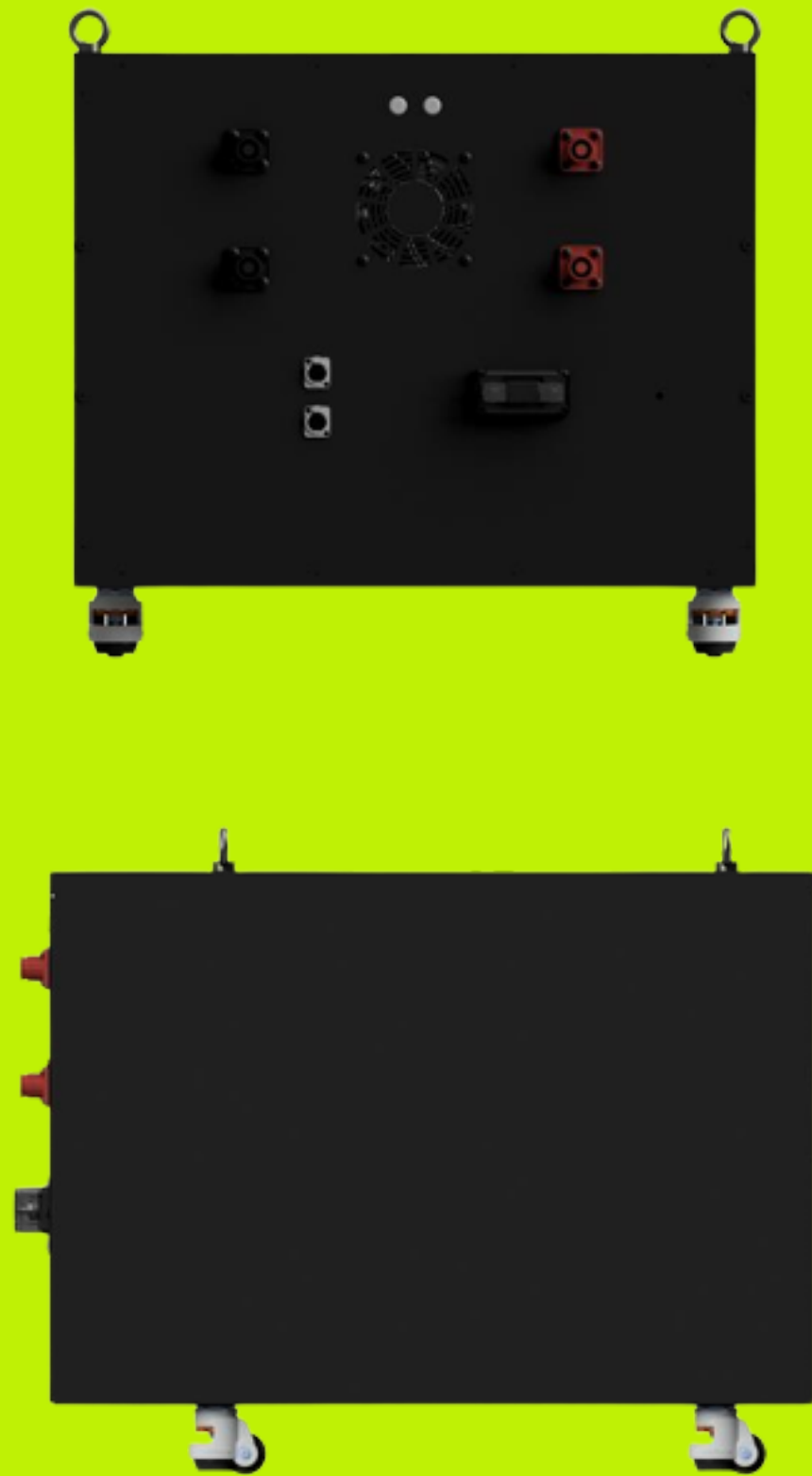
Basic battery data	Battery Type	Li-Ion (LFP)
	Nominal Capacity (kWh)	32,15
	Max. / continuous operation C-rate	1 / 0.5
	Depth of Discharge	98%
	Cycle life	>7000
	DC voltage range (VDC)	41.6 – 57.6
	Max. / continuous operation current (A)	628 / 314
	Discharge efficiency at 0.5C	>97%
	Charge efficiency at 0.5C	>98%
	Max. parallel number w/o multiple EMS boards	48
	Standards	IEC62619, CE



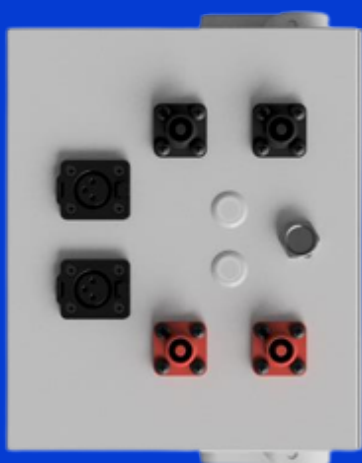
POWERBOX 64kWh 51.2V

Basic battery data

Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	64
Usable Capacity (kWh)	60.8
Dimensions (W*D*H mm)	825x700x615 (with castors)
Weight (kg)	440
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 157
	Max: 158-200 @20min
	Peak: 200-300 @20sec
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 100A, 10°C<T<50°C: 157A
Working Temperature Discharge	-10°C<T<0°C: 50A, 0°C<T<°15°C: 100A, 15°C<T<50°C: 157A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	500 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



POWERBOX 768Wh 12V



Battery Type	Li-Ion(LFP)
Nominal Capacity (kWh)	0.768
Usable Capacity (kWh)	0.730
Dimensions (W*D*H mm)	320x255x180
Weight (kg)	14
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 180/500
	Max: 180-220 @10min Charge
	Peak: 220-400 @10sec Charge
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 105A, 15°C<T<25°C: 180A, 25°C<T<35°C: 190A, 35°C<T<50°C: 70A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 35A, 0°C<T<°15°C: 60A, 15°C<T<40°C: 500A, 40°C<T<50°C: 30A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	600 (internal fuse)
Cooling	Passive cooling
IP rating	IP65
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>4000

Basic battery data



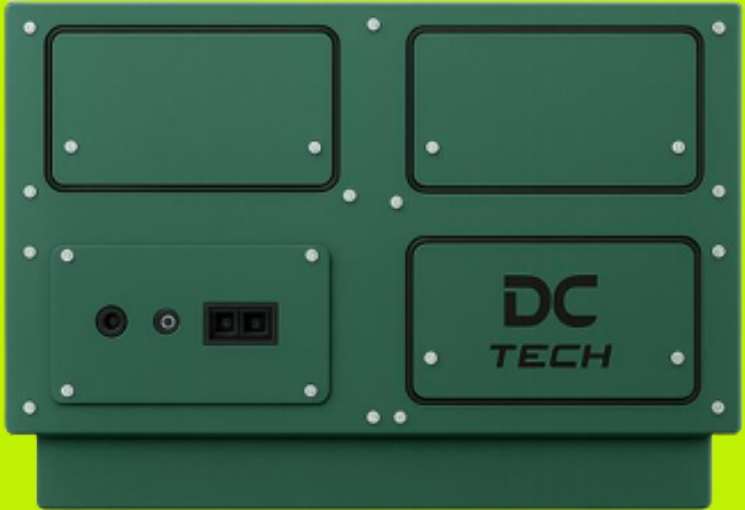
BMS basic data	Available battery types	NMC, LFP, LTO, NI-MH, Li-Po, Solid-state, Sodium
	Temperature slots	5
	Current measurment	Shunt
	Chip grade	Automotive
	Programable high voltage 1A switch	2
	Cell range	8s-16s
	Inverter Communication	CAN
	Parallel strings	48
	Series strings	14
	Switching	24V / 48V Relay
	Switching lane	Any
	Programable high voltage 1A switch	2
	BMS Current Sensitivity (A)	0.15
	Pre-Charge function	Pre-Charge until voltage equilibrium
	User interaction	Display, PC, bluetooth
	Cell balancing current (mA)	900



Features

- Scalable up to 48 units with no expansion board in parallel
- Modular design
- Relay based switching
- High current passive battery ballancing
- One way 16A charging
- Integrated pre-charge resistor
- Modular design
- Reverse polarity protection
- Module based parallel balancing

MONOLIT 3kW 3kWh



Features

- UPS Function 20ms response time
- Every cell status available
- High current battery ballancing
- 2kW integrated MPPT
- Smart fan cooling
- Integrated touchscreen

Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	3.072
Usable Capacity (kWh)	2.92
Dimensions (W*D*H mm)	400x620x300
Weight (kg)	56
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Cont. Out Power @25°C	2500W
AC Charging Current (A)	70A
Max. Solar Charging Current	70A
Input Voltage Range (V)	187-250
Input Frequency (Hz)	50/60
Storage Temperature (°C)	-20~45
Short circuit protection AC (A)	20 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000

Basic battery data



POWERBOX SODIUM PACK 1,74 KWH 23,2 V

Basic battery data

Battery Type	Sodium-Ion
Nominal Capacity (kWh)	1,74
Usable Capacity (kWh)	1,65
Nominal Voltage (V)	23,2
Operating Voltage Range (V)	12 ~ 31,2
Dimensions (L*W*H mm)	600x250x200
Weight (kg)	21
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
	Normal: 75/75
Charge / Discharge (A)	Max: 75/225 @20min Discharge
	Peak: 75/750 @10sec Discharge
Comunication port	CAN
Single String Quantity (pcs)	48
Charge temperature range	0°C ~ +55°C
Discharge temperature range	-40°C ~ +60°C
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20°C ~ +45°C
Short circuit protection (A)	800 (internal fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



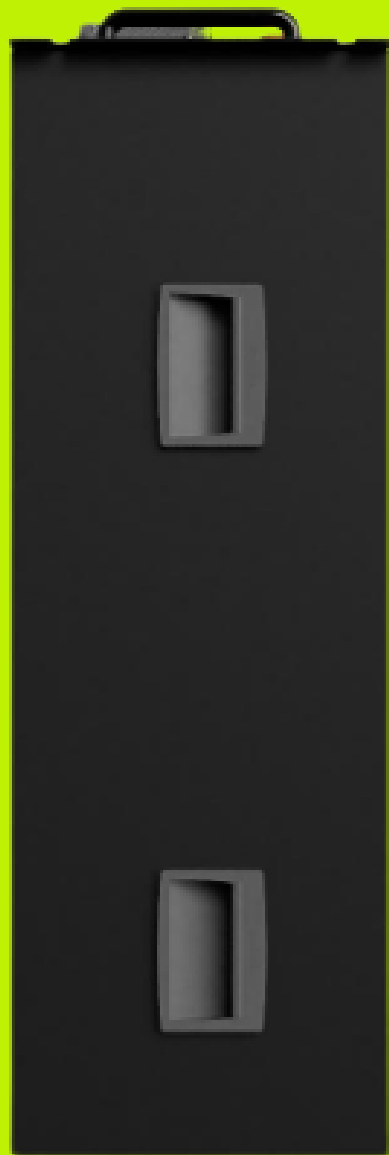
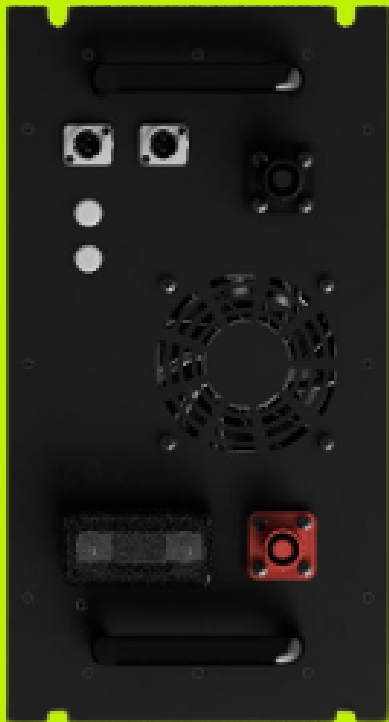
POWERBOX SODIUM PACK 3,48 KWH 46,4 V

Basic battery data

Battery Type	Sodium-Ion
Nominal Capacity (kWh)	3,48
Usable Capacity (kWh)	3,30
Nominal Voltage (V)	46,4
Operating Voltage Range (V)	24 ~ 62,4
Dimensions (L*W*H mm)	600x440x200
Weight (kg)	38
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 75/75
	Max: 75/225 @20min Discharge
	Peak: 75/750 @10sec Discharge
Comunication port	CAN
Single String Quantity (pcs)	48
Charge temperature range	0°C ~ +55°C
Discharge temperature range	-40°C ~ +60°C
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20°C ~ +45°C
Short circuit protection (A)	800 (internal fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



POWERBOX SODIUM PACK 7,3 KWH 45,1 V



Battery Type	Sodium-Ion
Nominal Capacity (kWh)	7,31
Usable Capacity (kWh)	6,94
Nominal Voltage (V)	45,12
Operating Voltage Range (V)	24 ~ 52,8
Dimensions (L*W*H mm)	785x440x260
Weight (kg)	116
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 162/162
	Max: 162/648 @15min Discharge
	Peak: 162/972 @10sec Discharge
Comunication port	CAN
Single String Quantity (pcs)	48
Charge temperature range	-10°C ~ +60°C
Discharge temperature range	-40°C ~ +60°C
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20°C ~ +35°C
Short circuit protection (A)	1000 (internal fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>20000

Basic battery data



POWERBOX SODIUM PACK 10,67 KWH 46,4 V

Basic battery data

Battery Type	Sodium-Ion
Nominal Capacity (kWh)	10,67
Usable Capacity (kWh)	10,14
Nominal Voltage (V)	46,4
Operating Voltage Range (V)	24 ~ 62,4
Dimensions (L*W*H mm)	785x440x260
Weight (kg)	128
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 230/230
	Max: 230/345 @40min Discharge
	Peak: 230/690 @10sec Discharge
Comunication port	CAN
Single String Quantity (pcs)	48
Charge temperature range	0°C ~ +55°C
Discharge temperature range	-40°C ~ +60°C
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20°C ~ +45°C
Short circuit protection (A)	800 (internal fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000



POWERSTACK 3P45-128

Dimensions (m)	1.1/0.75/2.3
Weight (tons) w/o battery /with battery	0.35 / 0.9
Protection class	customisable
Altitude (m)	2000
Humidity (non-condensing)	max. 95%
Fire extinguishing	aerosol
Cooling system	customisable
Max. parallel number	4
Available RM32 slots*	4
Rated AC power (kVA) at 25°C	15
Rated AC output voltage (VAC)	230
Rated AC output frequency (Hz)	50
Max AC current (A)	100
Overload capacity	180%
Response time (on-grid to off-grid) typ.	20 ms
Maximum efficiency	95%
Operation modes	peak shaving/UPS/self consumption/energy shifting

Inverter/ charger general data

*Can be expanded per user request



POWERSTACK SP15-72Q

Inverter/ charger general data

Dimensions (mm)	580/800/2100
Weight (tons) with battery	~0.71
Protection class	IP20
Altitude (m)	2000
Humidity (non-condensing)	max. 95%
Fire extinguishing	aerosol
HVAC system	customisable
Max. parallel number	12
Available RM18 slots	4
Rated AC power (kVA) at 25°C	15
Rated AC output voltage (VAC)	230
Rated AC output frequency (Hz)	50
Max AC current (A)	100
Overload capacity	180%
Response time (on-grid to off-grid) typ.	20 ms
Maximum efficiency	95%
Operation modes	peak shaving/UPS/self consumption/energy shifting



Features

- Fast response time: <20ms
- Every cell status available
- High current battery ballancing
- Stackable up to 180kVA and 864kWh
- Off and on site EMS
- Hot swap battery modules
- Multiple EV charging station (22kW) compatible



POWERSTACK SP20-120M1

Inverter/ charger general data

Dimensions (mm)	770/800/2100
Weight (tons) with battery	~1.05
Protection class	IP20
Altitude (m)	2000
Humidity (non-condensing)	max. 95%
Fire extinguishing	aerosol
HVAC system	customisable
Max. parallel number	12
Available 30kW 51.2V slots	4
Rated AC power (kW) at 25°C	20
Rated AC output voltage (VAC)	230
Rated AC output frequency (Hz)	50
Max AC current (A)	100
Peak Power (kW)	25kW 1min
Response time (on-grid to off-grid) typ.	20ms
Maximum efficiency	95%
Operation modes	peak shaving/UPS/self consumption/energy shifting

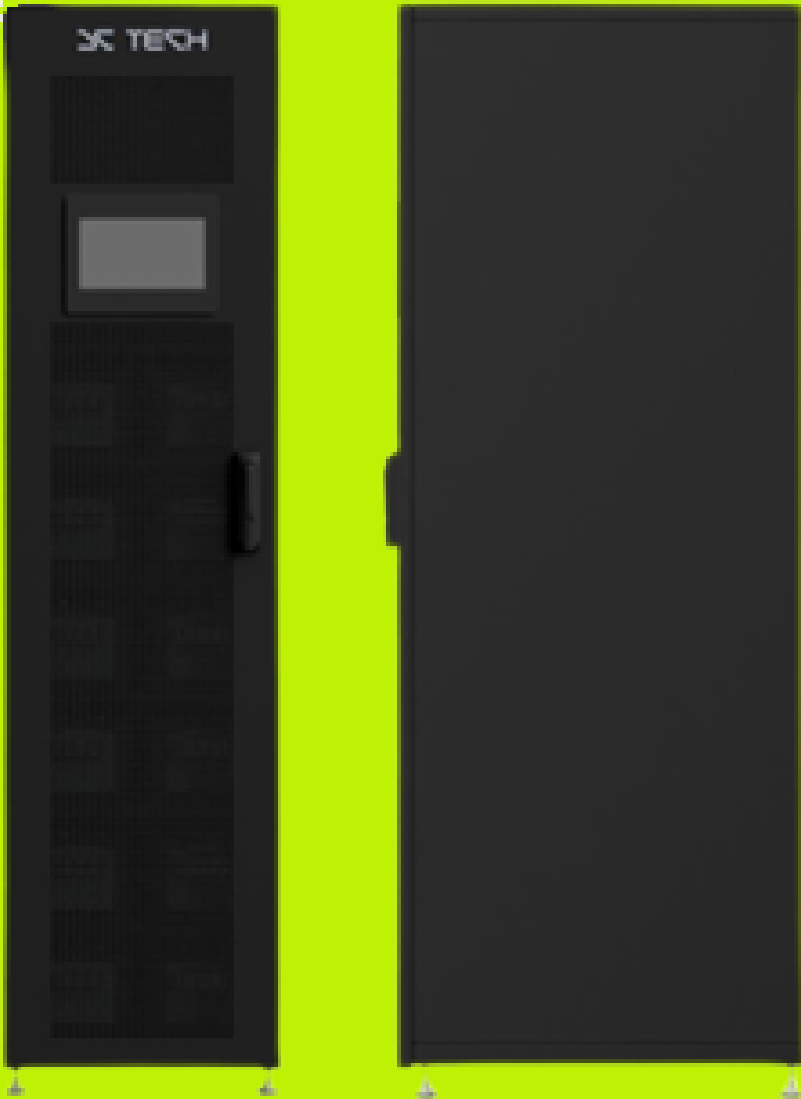


Features

- Fast response time: <20ms
- Every cell status available
- High current battery ballancing
- Stackable up to 240kW and 1.44MWh
- Off and on site EMS
- Hot swap battery modules
- Multiple EV charging station (22kW) compatible



UPS 43kWh 716VDC



Features

- Fast response time: <20ms
- Every cell status available
- High current battery ballancing
- High voltage
- Smart fan cooling
- Modular design

Battery Type	Li-Ion (LFP)
Nominal Capacity (kWh)	43
Usable Capacity (kWh)	41
Dimensions (W*D*H mm)	2000x500x700
Weight (kg)	490
Depth of Discharge	95%
Efficiency	Adaptive one way efficiency integrated model
Charge / Discharge (A)	Normal: 180/600
Discharge Time (min)	6
Comunication port	CAN
Single String Quantity (pcs)	48
Working Temperature Charge	T<0°C: 0A, 0°C<T<10°C: 70A, 10°C<T<15°C: 105A, 15°C<T<25°C: 180A, 25°C<T<35°C: 190A, 35°C<T<50°C: 70A, T>50°C: 0A
Working Temperature Discharge	-10°C<T<0°C: 35A, 0°C<T<°15°C: 60A, 15°C<T<50°C: 600A, 50°C<T<55°C: 30A, T>50°C: 0A
Balance Current per Cell (mA)	900
Storage Temperature (°C)	-20~45
Short circuit protection (A)	600 (external fuse)
Cooling	Smart Fan Cooling
IP rating	IP20
Humidity (RH)	5%-95% No Condensation
Design life (@25°C/0.5C)	15+ years
Cycle life (@25°C/0.5C)	>6000

Basic battery data



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