





American Standard V2.0 2024.08

Shenzhen ATESS Power Technology Co., Ltd

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About us

We are committed to energizing the future with clean energy

Shenzhen ATESS Power Technology Co., Ltd. is a subsidiary of Growatt group, headquartered in GROWATT-ATESS Industrial Park, Shuitian 4th Industrial Zone, Bao'an District, Shenzhen. The park covers an area of 31,600 m² and the manufacturing center covers an area of 25,000 m². It is a comprehensive smart industrial park integrating R&D, manufacturing, and sales of new energy products.





ESS & EV charging solutions supplier

31,600 m² industrial park



Thousands of tonnes of CO₂ emission reduced



Clean power delivered to 100,000+ users



12 years experience in ESS



200,000+ EV chargers installed



Milestone No.1 in the C&I ESS sector in South Africa Top 3 EV charger supplier in the UK market Approved as a specialized and sophisticated enterprise producing new and unique products Top 3 supplier in the Thailand **ESS** market Started EV part business Started EV charger business Started ESS business

Our R&D team

ATESS boasts an R&D team of over 100 highly experienced engineers. Our laboratory is fully equipped with advanced testing instruments to ensure top-notch product performance and quality, as well as customers' needs. We dedicate around 15% of our annual revenue to research and development each year to keep our products competitive.

100+

100+ R&D engineers

12

12 years experience

50%+

50%+ engineers with master's degree

15%

15% of annual revenue as R&D investment



Branches



Our vision

Over the past years, ATESS has helped thousands of users and companies produce and consume green energy independently according to their individual needs, saving millions of tonnes of CO₂ emission. This motivates us to continually strive to create and innovate, on the universal carbon neutralization goal, and also a greener future energized by renewable energy technology.

- Headquarter
- Office/warehouse
- In the pipeline



85+

Countries

Delivered clean power to 85+

Countries

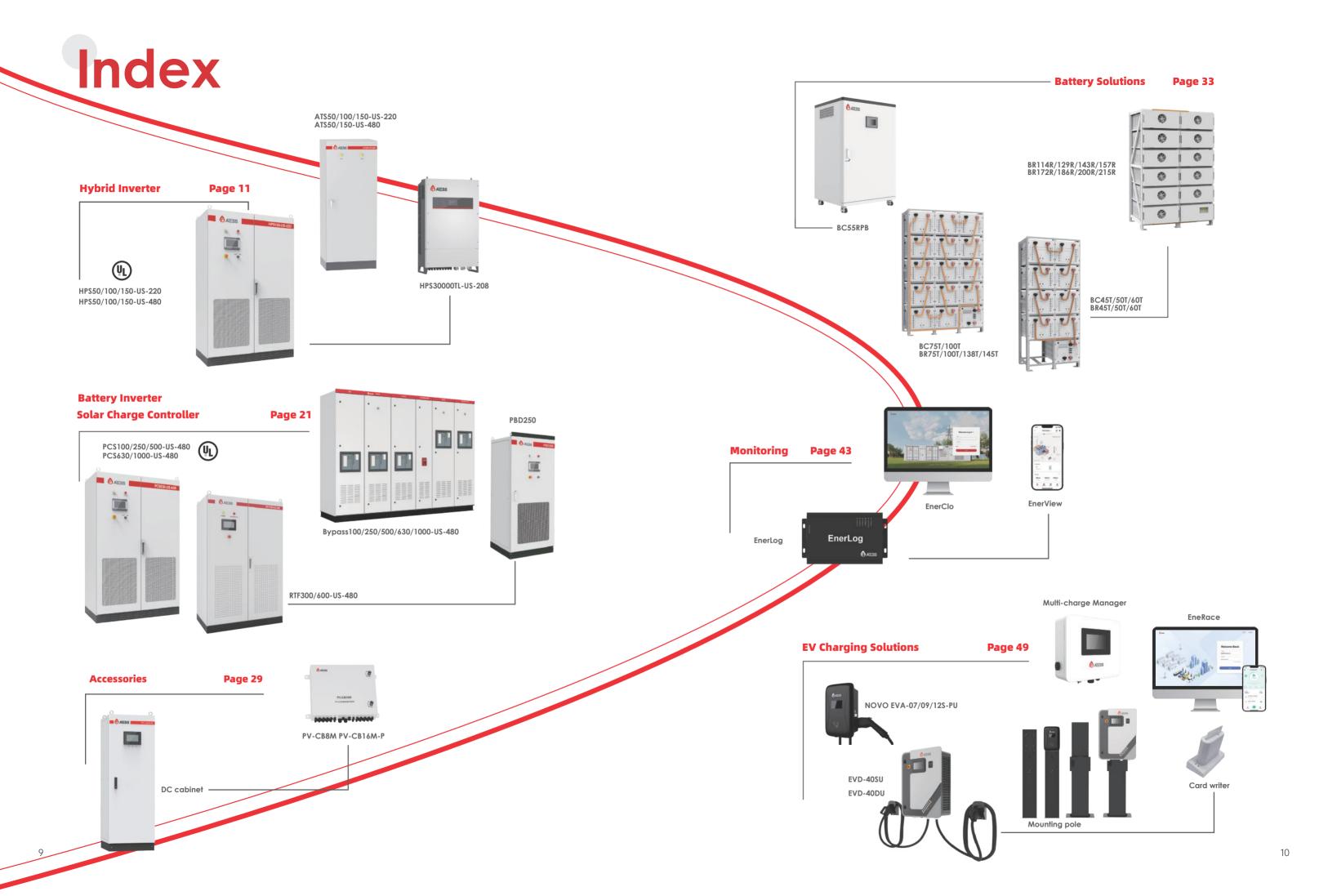
13

Branches 13 Offices and warehouses Worldwide

Years

• Australia

Systems operating 5+ years





PV SPD | DC | BUCK | BUS | Inverter | Contactor | Con

HPS50-US-220 HPS100-US-220 HPS150-US-220

Apparent power	50kVA	100kVA	150kVA
Rated power	50kW	100kW	150kW
Rated voltage	220V Wye	220V Wye	220V Wye
Rated current	131A	263A	394A
Voltage range	190-240V	190-240V	190-240V
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Frequency range	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz
THDI	<3%	<3%	<3%
PF	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading
AC input connection	3/N/PE Wye / 3/N/PE Delta(Opt)	3/N/PE Wye / 3/N/PE Delta(Opt)	3/N/PE Wye / 3/N/PE Delta(Opt)
AC input	50kVA	100kVA	150kVA

AC(off-grid)

Apparent power	50kVA	100kVA	150kVA
Rated power	50kW	100kW	150kW
Rated voltage	220V Wye	220V Wye	220V Wye
Rated current	131A	263A	394A
THDU	≤2% linear	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min

DC (Battery and PV)

Max. PV open-circuit voltage	1000V DC	1000V DC	1000V DC
Max. PV power	75kWp	150kWp	225kWp
PV MPPT voltage range	480V-800V DC	480V-800V DC	480V-800V DC
Battery voltage range	400V-600V	400V-600V	400V-600V
Max. charge power	75kW	150kW	225kW
Max. discharge power	50kW	100kW	150kW
Max. charge current	125A	250A	319A
Max. discharge current	138A	275A	319A

General Information

Protection degree	Type 1	Type 1	Type 1
Noise emission	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C
Cooling method	Forced-air	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
Max. altitude	6000m (derate over 3000m)	6000m (derate over 3000m)	6000m (derate over 3000m)
Dimension (W/H/D)	950/1860/750mm	1200/1900/800mm	1200/1900/800mm
Weight	590kg	923kg	1200kg
Build-in transformer	Yes	Yes	Yes
Lightning protection	Type II	Type II	Type II
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms
Standby consumption	<30W	<30W	<30W

Communication

Display	Touch screen	Touch screen	Touch screen
Communication	RS485/CAN	RS485/CAN	RS485/CAN

Certificate

UL1741, CSA-C22.2

- \star The MPPT voltage of PV strings should be 50~200V higher than the Max battery voltage.
- * Support voltage types: 190-240V Wye & 190-240V High-leg Delta with split phase(Opt)
 There will be derating at different voltage levels and standards, as shown below:

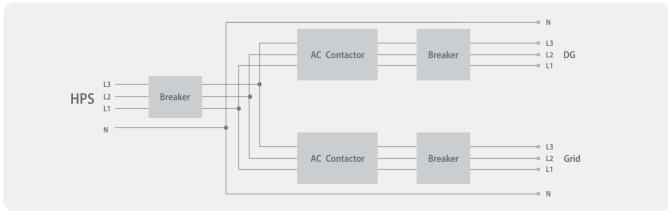
Voltage system	Rated power of AC IN&OUT	Voltage system	Rated power of AC IN&OUT
190V Wye	86.50%	190V High-leg Delta	79.30%
208V Wye	94.50%	208V High-leg Delta	86.80%
220V Wye	100%	220V High-leg Delta	91.80%
240V Wye	100%	240V High-leg Delta	100.00%



The ATS is an accessory of the American standard HPS. When both the grid and DG need to access the HPS, the ATS will be used to switch between the grid and DG automatically.



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	ATS50-US-220	ATS100-US-220	ATS150-US-220
Rated voltage	220V	220V	220V
Rated current	131.3A	262.7A	394.1A
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Max. power	75kVA	150kVA	225kVA
Output breaker	250A	400A	630A
Grid breaker	250A	400A	630A
DG breaker	250A	400A	630A
Lightning protection	Type II	Type II	Type II
Protection degree	Type 1	Type 1	Type 1
Relative humidity	0~95% non-condensing	0~95% non-condensing	0~95% non-condensing
Operating temperature	-25°C~+55°C	-25°C~+55°C	-25°C~+55°C
Dimension (W/H/D)	600/1500/430mm	700/1650/500mm	850/1650/550mm
Weight	82kg	135kg	173kg
Communication	RS485/CAN	RS485/CAN	RS485/CAN

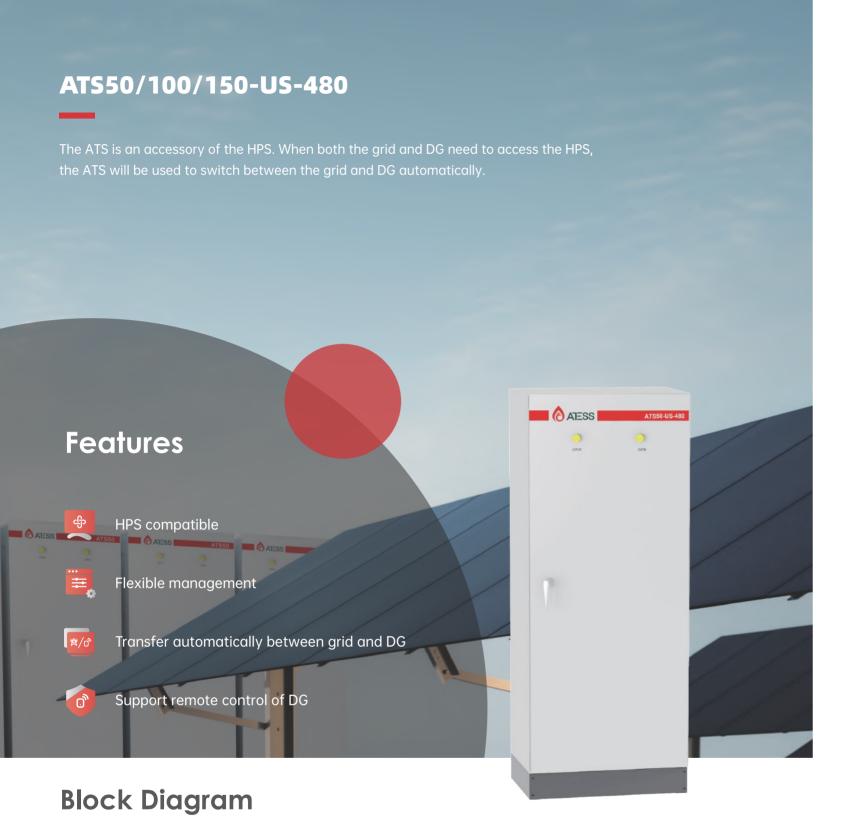


	110000 110 400	UD0400 U0 400	LIBOATO NO 400
AC(on-grid)	HPS50-US-480	HPS100-US-480	HPS150-US-480
Apparent power	50kVA	100kVA	150kVA
Rated power	50kW	100kW	150kW
Rated voltage	480V Wye	480V Wye	480V Wye
Rated current	60A	120A	180A
Voltage range	432-528V	432-528V	432-528V
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Frequency range	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz
THDI	<3%	<3%	<3%
PF	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading
AC connection	3/N/PE Wye	3/N/PE Wye	3/N/PE Wye
AC input	100kVA	200kVA	240kVA
AC(off-grid)			
Apparent power	50kVA	100kVA	150kVA
Rated power	50kW	100kW	150kW
Rated voltage	480V Wye	480V Wye	480V Wye
Rated current	60A	120A	180A
THDU	≤2% linear	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10 mins	110%-10 mins	110%-10 mins
	120%-1 min	120%-1 min	120%-1 min
DC (Battery and PV)			
Max. PV open-circuit voltage	1000V DC	1000V DC	1000V DC
Max. PV power	75kWp	150kWp	225kWp
PV MPPT voltage range	480V-800V DC	480V-800V DC	480V-800V DC
Battery voltage range	352V-600V	352V-600V	352V-600V
Max. charge power	75kW	150kW	225kW
Max. discharge power	55kW	110kW	165kW
Max. charge current	150A	300A	450A
Max. discharge current	138A	275A	413A
General Information			
Protection degree	Type 1	Туре 1	Туре 1
Noise emission	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C
Cooling method	Forced-air	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
Max. altitude	6000m	6000m	6000m
	(derate over 3000m)	(derate over 3000m)	(derate over 3000m)
Dimension (W/H/D)	950/1860/750mm	1200/1900/800mm	1200/1900/800mm
Weight	590kg	923kg	1200kg
Build-in transformer	Yes	Yes	Yes
Lightning protection	Type II	Type II	Type II
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms
Standby consumption	<30W	<30W	<30W

CSA-C22.2

Communication			
Display	Touch screen	Touch screen	Touch screen
Communication	RS485/CAN	RS485/CAN	RS485/CAN

 $^{\ ^{\}star}$ The MPPT voltage of PV strings should be 50~200V higher than the Max battery voltage.



	AC Contactor	Breaker	
HPS L2 Breaker			
	AC Contactor	Breaker ————	——— L3 ——— L2 Grid ——— L1
			N

	ATS50-US-480	ATS100-US-480	ATS150-US-480
Rated voltage	480V	480V	480V
Rated current	120A	240A	288A
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Rated power	100kVA	200kVA	240kVA
Output breaker	250A	400A	630A
Grid breaker	250A	400A	630A
DG breaker	250A	400A	630A
Lightning protection	Type II	Type II	Type II
Protection degree	Type 1	Type 1	Type 1
Relative humidity	0~95% non-condensing	0~95% non-condensing	0~95% non-condensing
Operating temperature	-25°C~+55°C	-25°C~+55°C	-25°C~+55°C
Dimension (W/H/D)	600/1500/450mm	700/1650/500mm	700/1650/500mm
Weight	77kg	125kg	125kg
Communication	RS485/CAN	RS485/CAN	RS485/CAN



PV 1 DC EMI — MPPT3 DC Switch DC SpD Battery Breaker AC Breaker L1 L2 AC AC Relay N Relay N AC SPD Breaker L3 AC SPD Breaker Load Load AC SPD

HPS30000TL-US-208

AC(on-grid)	
Apparent power	30kVA
Rated power	30kW
Rated voltage	208V
Rated current	83A
Voltage range	190-240V Wye/High-leg delta with split phase (Opt) (Derate below 208V 3P)
Rated frequency	50/60Hz
Frequency range	47~53/57~63Hz
THDI	<3%
PF	0.9 lagging~0.9 leading
AC connection	3/N/PE

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Apparent power 30kVA
Rated power 30kW
Rated voltage 208V
Rated current 83A

Voltage range 190-240V Wye/High-leg delta with split phase (Opt) (Derate below 208V 3P)

THDU $\leq 2\%$ linear Rated frequency 50/60Hz

Overload capability 110%-10 mins 120%-1 min

DC (Battery and PV)

Max. PV Open-circuit voltage 800V 37.5kWp Max. PV power 125V-620V PV MPPT voltage range Number of MPPT 2/3/3 PV input/MPPT 260-620V Battery voltage range Full load battery voltage range 350-600V Max. charge/discharge power 30kW Max. charge/discharge current 85A

General Information

Protection devices PV DC switch, PV fuse, battery breaker and fuse

Protection degree Type 3R

Noise emission <65dB(A)@1m

Operating temperature -30 °C~+50 °C

Cooling method Forced-air

Relative humidity 0-95% non-condensing Max. altitude 3000m (derate over 2000m)

Dimension (W/H/D) 600/1000/315mm

Weight 90kg

Topology Transformerless
Lightning protection Type II

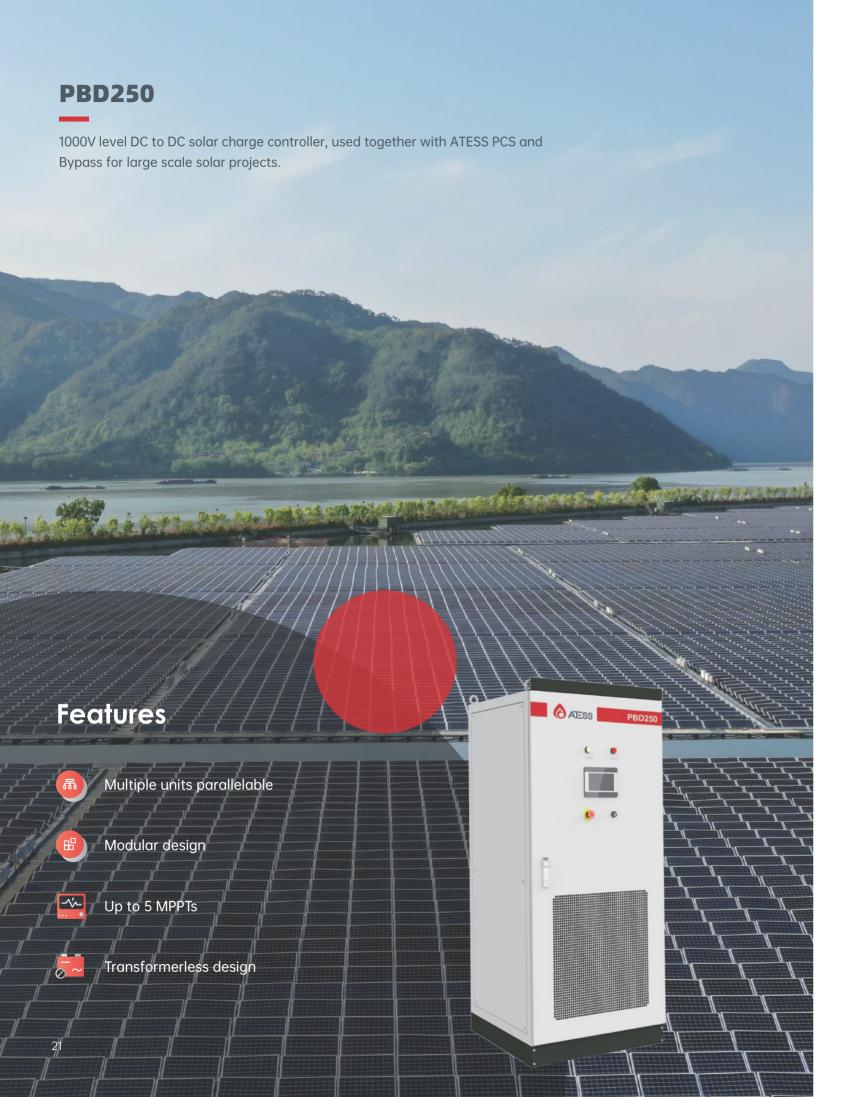
Transfer between on/off grid Automatic≤10ms

Standby consumption <20W

Communication

Display Touch screen Communication RS485/CAN

Monitoring WiFi or 4G module available



PBD250

Input (PV)

Max. PV power 250kW MPPT voltage range 350V-850V Full load MPPT voltage range 480V-850V Max. input current 575A(115A*5) Number of MPPT

Output (Battery and PCS)

600V-900V Ouput voltage Max. charge power 250kW Max. charge current 416A Max. charge efficiency 99%

Protection

Input & output OV/UV protection Yes Input & output OC protection Yes Short circuit protection Yes Over temperature protection Yes Lightning protection Type II DC breaker Yes Emergency stop Yes

General Information

IP20 Protection degree

<65dB(A)@1m Noise emission -25 °C~+55 °C Operating temperature Cooling method Forced-air

0-95% non-condensing Relative humidity Max. altitude 6000m (derate over 3000m)

Dimension (W/H/D) 800/1900/700mm

Weight 289kg Topology Transformerless

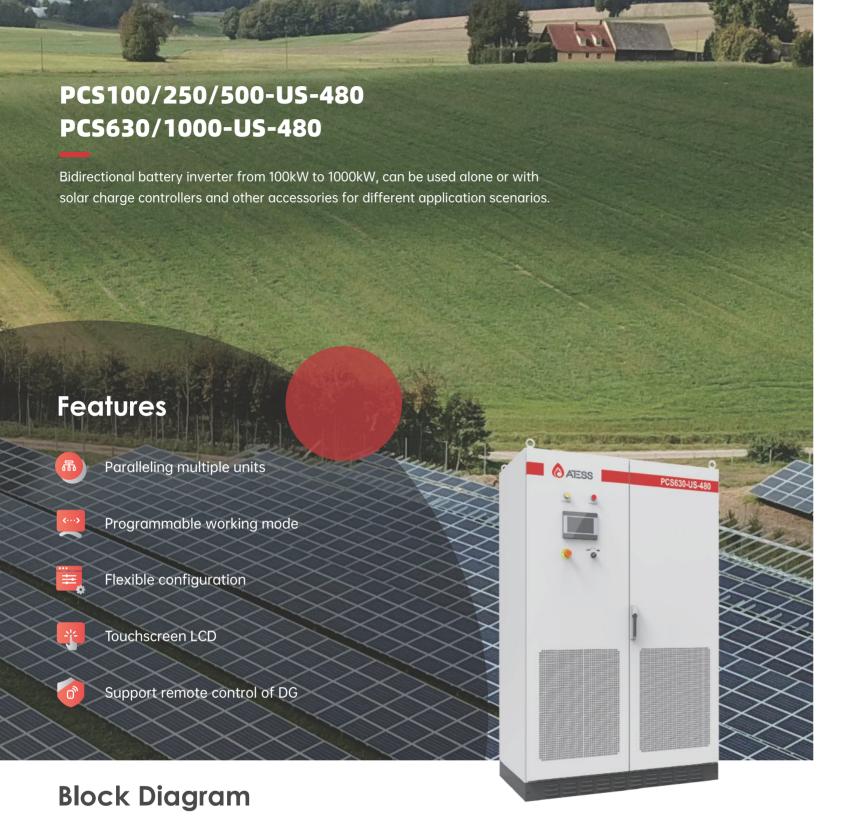
<100W Standby power

Communication

Display Touch screen Communication RS485/CAN

Certificate

CE



DC Breaker AC SPD

AC SPD

AC SPD

L1

L2

AC EMI

Note: Inbuilt transformer is only available for PCS100 and PCS250

	PCS100-US-480	PCS250-US-480	PCS500-US-480	PCS630-US-480	PCS1000-US-480
AC(on-grid)					
Apparent power	100kVA	250kVA	500kVA	630kVA	1000kVA
Rated power	100kW	250kW	500kW	630kW	1000kW
Rated voltage	480V	480V	480V	480V	480V
Rated current	120A	301A	601A	758A	1203A
Voltage range	432V-528V	432V-528V	432V-528V	432V-528V	432V-528V
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Frequency range	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz	47-51.5/57-61.5Hz
THDI	<3%	<3%	<3%	<3%	<3%
PF	0.8 lagging~0.8 leading				
AC connection	3/N/PE	3/N/PE	3/PE	3/PE	3/PE

AC(off-grid)					
Apparent power	100kVA	250kVA	500kVA	630kVA	1000kVA
Rated power	100kW	250kW	500kW	630kW	1000kW
Rated voltage	480V	480V	480V	480V	480V
Rated current	120A	301A	601A	758A	1203A
THDU	≤2% linear				
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10 mins				
	120%-1 min				

DC (Battery and P)	/)				
Rated power	100kW	250kW	500kW	630kW	1000kW
Current regulation	±1%	±1%	±1%	±1%	±1%
Voltage regulatoin	±1%	±1%	±1%	±1%	±1%
Voltage ripple	<3%	<3%	<3%	<3%	<3%
Current ripple	<2%	<2%	<2%	<2%	<2%
Voltage range	500V-820V	500V-820V	600V-900V	600V-900V	700V-900V
Max. charge/	220A	550A	917A	1155A	1430A
discharge current					

97.10%	97.30%	98.50%	98.50%	99.0%
Type 1	Type 1	Type 1	Type 1	Type 1
<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@lm
-25°C~+55°C	-25°C~+55°C	-25°C~+55°C	-25°C~+55°C	-25°C~+55°C
Forced-air	Forced-air	Forced-air	Forced-air	Forced-air
0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
6000m	6000m	6000m	6000m	6000m
(derate above 3000m)	(derate above 3000m)	(derate above 3000m)	(derate above 3000m)	(derate over 3000m)
1100/1890/850mm	1600/2080/850mm	1200/1900/800mm	1200/1900/800mm	1510/1900/850mm
820kg	1465kg	870kg	900kg	1500kg
Yes	Yes	No	No	No
Type II	Type II	Type II	Type II	Type II
Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms
	Type 1 <65dB(A)@1m -25°C~+55°C Forced-air 0-95% non-condensing 6000m (derate above 3000m) 1100/1890/850mm 820kg Yes Type II Manual(default) Automatic(optional)	Type 1 Type 1 <65dB(A)@1m	Type 1 Type 1 Type 1 <65dB(A)@1m	Type 1 Type 1 Type 1 Type 1 <65dB(A)@1m

Communication					
Display	Touch screen				
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN

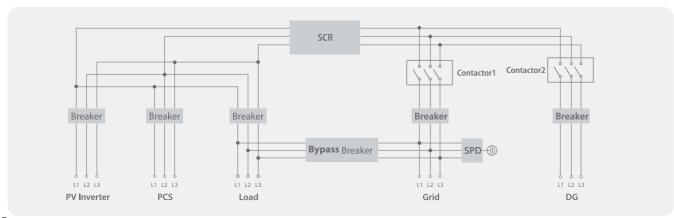
Certificate	
UL1741, CSA-C22.2	

Bypass100/250/500-US-480 Bypass630/1000-US-480

ATESS bypass cabinet is designed to be used together with the bidirectional battery inverter to realize seamless transfer between on-grid and off-grid modes automatically.



Block Diagram



	Bypass100-US-480	Bypass250-US-480	Bypass500-US-480	Bypass630-US-480	Bypass1000-US-480
Rated voltage	480V	480V	480V	480V	480V
Rated current	120A	301A	601A	758A	1202A
Rated frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Rated power	100KVA	250KVA	500KVA	630KVA	1000KVA
Max. current	175A	435A	866A	1091A	1443A
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms
Zero export function	Opt	Opt	Opt	Opt	Opt
Power limit(grid)	Opt	Opt	Opt	Opt	Opt
PV inverter breaker	250A	630A	1250A	1250A	2000A/3P
PCS breaker	250A	630A	1250A	1250A	2000A/3P
Grid breaker	250A	630A	1250A	1250A	2000A/3P
Load breaker	250A	630A	1250A	1250A	2000A/3P
Bypass breaker	250A	630A	1250A	1250A	1600A/3P
DG breaker	Opt	Opt	Opt	Opt	Opt
Lightning protection	Type II				
Protection degree	Type 1	Type 1	Type 1	Type 1	Туре 1
Relative humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
Operating temperature	-25 °C~+55 °C				
Dimension (W/H/D)	700/1630/500mm	700/1800/500mm	1600/1900/800mm	1600/1900/800mm	2850/2100/800mm
Weight	135kg	205kg	900kg	1040kg	1500kg
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN

RTF300/600-US-480

Paralleling multiple units

Modular rectifier cabinet, 300KW and 600KW optional, can be combined with ATESS PCS to form a DC coupling solution, suitable for large industrial scenarios.



	RTF300-US-480	RTF600-US-480
AC(on-grid)		
Rated power	300kW	600kW
Rated voltage	480V	480V
Rated current	361A	722A
Voltage range	260V-528V	260V-528V
Rated frequency	50±10%	50±10%
PF	≥0.98	≥0.98
THDI	≤5%	≤5%
Efficiency	≥95%	≥95%

DC(output)		
Voltage range	200Vdc-950Vdc (full above 500V derate below 500V)	200Vdc-950Vdc (full above 500V derate below 500V)
Max. output current	560A	1200A
Output current ripple	≤1%	≤1%
Voltage accuracy	≤0.5%	≤0.5%
Current accuracy	≤1%	≤1%

General Information		
Nosie emission	≤68Db(A)@1m	≤68Db(A)@1m
Operating temperature	-40 °C~+45 °C, full load; 45 °C~55 °C, half load	-40 °C~+45 °C, full load; 45 °C~55 °C, half load
Storage temperature	-40 °C~85 °C	-40 °C~85 °C
Relative humidity	0~95% non-condensing	0~95% non-condensing
Max. altitude	<2000m	<2000m
Cooling method	Forced-air	Forced-air
Dimension (W/H/D)	1204/1958/853mm	1204/1958/853mm
Weight	245kg	350kg

Communication						
Display	Touch screen	Touch screen				
Communication	RS485/CAN	RS485/CAN				

: Certificate			
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	ATESS Batt-Master Cabinet 9R	ATESS Batt-Master Cabinet 15R	
Range of battery racks connected in parallel	9	15	
Rated battery rack current	100A	100A	
Max. battery rack current	200A(Opt)	200A(Opt)	
Rated charge and discharge current	900A	1500A	
Max. charge and discharge current	1800A	3000A	
Max. battery voltage	1000V	1000V	
MBMS	Inbuilt	Inbuilt	
Protection degree	Type 1	Type 1	
Dimensions (W/H/D)	600/1760/600mm	800/2000/550mm	
Weight	177kg	256kg	
Display	7 inch touch screen	7 inch touch screen	

PV-CB8M PV-CB16M-P

The PV combiner box is an accessory for multiple PV strings connections, and it is with a smart controller inbuilt for monitoring, along with comprehensive protections including the fuse and SPD.



PV-CB16M-P

Max. input voltage1000V1000VMax. string Isc20A20ANumber of input string816

PV-CB8M

Input DC

Input fuse 1 on negative and positive pole of each string, 25A, 10*38mm 1 on negative and positive pole of each string, 30A, 10*38mm

Input cable gland 4mm-8mm cable diameter 4mm-8mm cable diameter

Input cable terminal 4mm²-6mm² 4mm²-6mm²

 Output DC

 Number of output
 1
 1

 Max. output current
 144A
 320A

 Output breaker
 200A
 400A

 Output cable terminal
 50mm²
 120mm²

 Output cable gland
 13mm-18mm cable diameter
 18mm-25mm cable diameter

 General Information
 600/500/172mm
 600/500/202mm

Weight 22.5kg 29kg

Enclosure material Galvanized steel Galvanized steel

Protection degree IP65 IP65
Operating temperature -25°C~55°C -25°C~55°C

Humidity 0~99% 0~99%

Altitude 2000m without derating 2000m without derating

Lightning protection Type II Type II

Cooling method Natural convection Natural convection

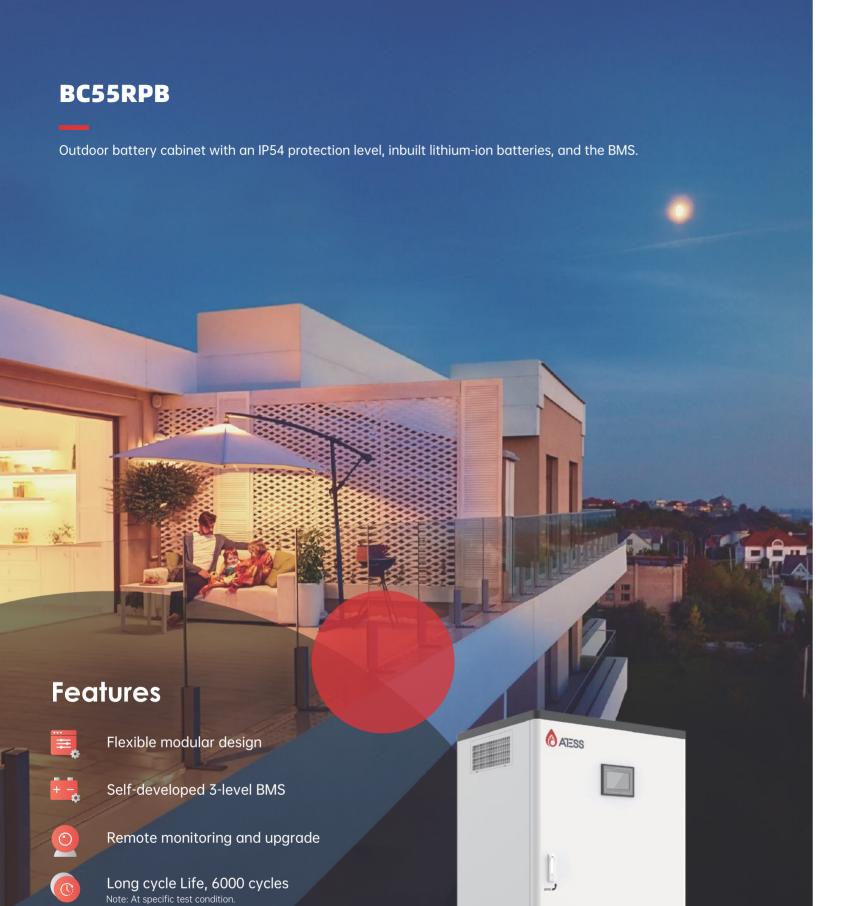
Mounting Wall-mount Wall-mount

Monitoring String current, bus voltage, breaker status, String current,

String current, bus voltage, breaker status, surge arrestor status, internal temperature surge arrestor status, internal temperature

Power supply DC300V~1000V DC300V~1000V

Power consumption 14W 14W
Communication RS485 RS485



Cell balancing method optional

Max 1C discharge

BC55RPB

Battery module specification

Configuration 16S1P Rated capacity 100Ah 5.12kWh Rated energy Rated voltage 51.2V Voltage range 44.8-58.4V Rated charge/discharge 0.5C Max. charge/discharge 1C AC internal resistance ≤8mΩ

Dimension (W/H/D) 446.5/165/655mm

Weight 44kg

Battery rack specification

Configuration	6 battery modules +1 BPU	7 battery modules +1 BPU	8 battery modules +1 BPU	9 battery modules +1 BPU	10 battery modules +1 BPU	11 battery modules +1 BPU
Rated capacity	100Ah	100Ah	100Ah	100Ah	100Ah	100Ah
Rated energy	30.72kWh	35.84kWh	40.96kWh	46.8kWh	51.2kWh	56.3kWh
Rated voltage	307.2V	358.4V	409.6V	468V	512V	563V
Voltage range	268.8V-345.6V	313.6V-403.2V	358.4V-460.8V	403.2V-518.4V	448V-576V	492.8V-642.4V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C	1C
AC internal resistance	≤80mΩ	≤56mΩ	≤64mΩ	≤72mΩ	≤80mΩ	≤88mΩ
Display	7"Touch screen	7"Touch screen				
BMS	Included	Included	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485	RS485	RS485
Max. altitude	3000m	3000m	3000m	3000m	3000m	3000m
Dimension (W/H/D) mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm	1052/1627/850mm
Weight	474kg	518kg	562kg	606kg	650kg	694kg
Protection degree	IP54	IP54	IP54	IP54	IP54	IP54

Balancing methods

Passive cell balancing Yes Active cell balancing Opt

BMS parameters on LCD

Cell voltag Yes Cell high voltage Yes Battery SOC Yes Yes Cell temperature Charge and discharge current Yes Cell low voltage Yes Total battery voltage Yes Fault warning

Protection

Short circuit protection Yes Over current protection Yes Over charge protection Yes Over temperature protection Yes Cell over voltage protection Yes Cell under voltage protection Yes Over discharge protection Yes

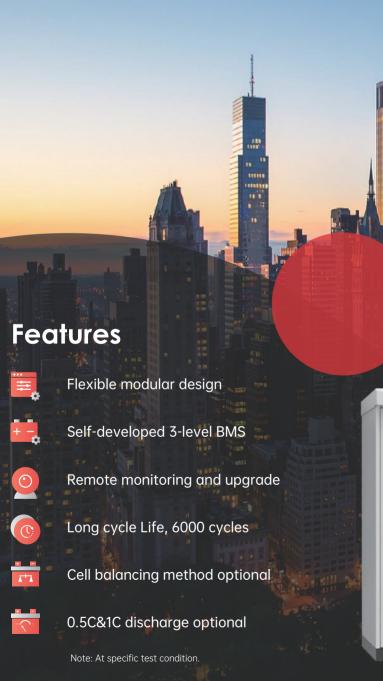
Certificate

CE, UL, UN38.3, IEC62619, MSDS, ROHS, CB

*Note: Acticve balancing is under development.

BC45T/50T/60T BR45T/50T/60T

Outdoor battery cabinet with an IP54 protection level, and indoor battery rack with an IP20 protection level, inbuilt lithium-ion batteries, and the BMS.



BC45T BR45T BC50T BR50T BC60T BR60T Battery module specification 24S1P 24S1P 24S1P Configuration Rated capacity 100Ah 100Ah 100Ah 7.68kWh 7.68kWh 7.68kWh Rated energy Rated voltage 76.8V 76.8V 76.8V Voltage range 67.2-87.6V 67.2-87.6V 67.2-87.6V Rated charge/discharge 0.5C 0.5C 0.5C Rated charge/discharge 1C(Opt) 1C(Opt) 1C(Opt) AC internal resistance ≤15mΩ ≤15mΩ ≤15mΩ 360/285/692mm 360/285/692mm 360/285/692mm Dimension (W/H/D) ≤74kg ≤74kg ≤74kg Weight

Battery rack specification						
Configuration	6 battery modu	ules +1 BPU	7 battery modu	ıles +1 BPU	8 battery modu	ules +1 BPU
Rated capacity	100Ah		100Ah		100Ah	
Rated energy	46.08kWh		53.76kWh		61.44kWh	
Rated voltage	460.8V		537.6V		614.4V	
Voltage range	403.2V-525.6V		470.4V-613.2V		537.6V-700.8V	
Rated charge/discharge	0.5C		0.5C		0.5C	
Rated charge/discharge	1C(Opt)		1C(Opt)		1C(Opt)	
AC internal resistance	≤90mΩ		≤105mΩ		≤120mΩ	
Display	7"Touch screen	١	7"Touch screen	1	7"Touch screer	1
BMS	Included		Included		Included	
Communication	CAN		CAN		CAN	
Monitoring	RS485		RS485		RS485	
Max. altitude	3000m		3000m		3000m	
Dimension (W/H/D) mm Weight Protection degree	950/2150/1025 ≤716kg	≤539kg	950/2150/1025 ≤792kg IP54	≤615kg	950/2150/1025 ≤868kg IP54	≤691kg
BMS Communication Monitoring Max. altitude Dimension (W/H/D) mm	Included CAN RS485 3000m 950/2150/1025	752/1760/660	Included CAN RS485 3000m 950/2150/1025	752/1760/660	Included CAN RS485 3000m 950/2150/1025	752/176

Passive cell balancing Active cell balancing	Yes Opt	Yes Opt	Yes Opt
BMS parameters on LCD			
Cell voltag Cell high voltage Battery SOC Cell temperature Charge and discharge current Cell low voltage Total battery voltage Fault warning	Yes	Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes
Protection			
Short circuit protection	Yes	Yes	Yes

Yes

Yes

Yes

Yes

Yes

Certificate

Over current protection

Over charge protection

Over temperature protection

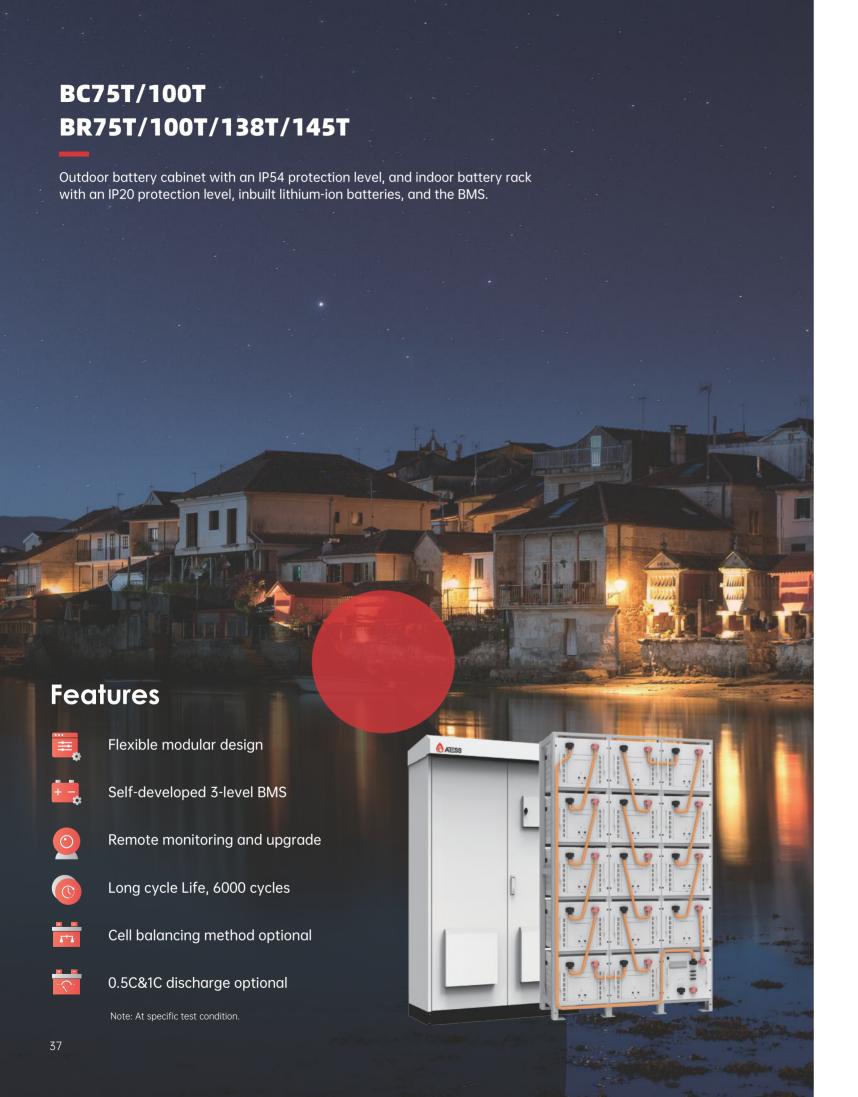
Cell over voltage protection

Cell under voltage protection

Over discharge protection

CE, UL, UN38.3, IEC62619, MSDS, ROHS, CB

Yes



	BC75T BR75T	BC100T BR100T	BR138T	BR145T
Battery module specification				
Configuration	12S2P	12S2P	12S2P	12S2P
Rated capacity	200Ah	200Ah	200Ah	200Ah
Rated energy	7.68kWh	7.68kWh	7.68kWh	7.68kWh
Rated voltage	38.4V	38.4V	38.4V	38.4V
Voltage range	33.6~43.8V	33.6~43.8V	33.6~43.8V	33.6~43.8V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤5mΩ	≤5mΩ	≤5mΩ	≤5mΩ
Dimension (W/H/D)	360/285/692mm	360/285/692mm	360/285/692mm	360/285/692mm
Weight	≤74.5kg	≤74.5kg	≤74.5kg	≤74.5kg

Configuration	10 battery mode	ules +1 BPU	14 battery modu	ules +1 BPU	18 battery modules +1 BPU	19 battery modules +1 BPI
Rated capacity	200Ah		200Ah		200Ah	200Ah
Rated energy	76.8kWh		107.52kWh		138.24kWh	145.92kWh
Rated voltage	384V		537.6V		691.2V	729.6V
Voltage range	336V-438V		470.4V-613.2V		604.8V~766.8V	638.4V~832.2V
Rated charge/discharge	0.5C		0.5C		0.5C	0.5C
Rated charge/discharge	1C(Opt)		1C(Opt)		1C(Opt)	1C(Opt)
AC internal resistance	≤50mΩ		≤70mΩ		≤90mΩ	≤95mΩ
Display	7"Touch screen		7"Touch screen		7"Touch screen	7"Touch screen
BMS	Included		Included		Included	Included
Communication	CAN		CAN		CAN	CAN
Monitoring	RS485		RS485		RS485	RS485
Max. altitude	3000m		3000m		3000m	3000m
Dimension (W/H/D) mm	1310/2150/1025	1119/2150/660	1310/2150/1025	1119/2150/660	1504/1760/660	1504/1760/660
Weight	≤1130kg	≤877kg	≤1436kg	≤1183kg	≤1547kg	≤1624kg
Protection degree	IP54	IP20	IP54	IP20	IP20	IP20

Balancing methods					
Passive cell balancing Active cell balancing	Yes Opt	Yes Opt	Yes Opt	Yes Opt	

BM3 parameters on LCD				
Cell voltag	Yes	Yes	Yes	Yes
Cell high voltage	Yes	Yes	Yes	Yes
Battery SOC	Yes	Yes	Yes	Yes
Cell temperature	Yes	Yes	Yes	Yes
Charge and discharge current	Yes	Yes	Yes	Yes
Cell low voltage	Yes	Yes	Yes	Yes
Total battery voltage	Yes	Yes	Yes	Yes
Fault warning	Yes	Yes	Yes	Yes

Protection					
Short circuit protection	Yes	Yes	Yes	Yes	
Over current protection	Yes	Yes	Yes	Yes	
Over charge protection	Yes	Yes	Yes	Yes	
Over temperature protection	Yes	Yes	Yes	Yes	
Cell over voltage protection	Yes	Yes	Yes	Yes	
Cell under voltage protection	Yes	Yes	Yes	Yes	
Over discharge protection	Yes	Yes	Yes	Yes	

CE, UL, UN38.3, IEC62619, MSDS, ROHS, CB



	BR114R	BR129R	BR143R	BR157R	BR114R for containe
Battery module specificati	on				
Configuration	16S1P	16S1P	16S1P	16S1P	16S1P
Rated capacity	280Ah	280Ah	280Ah	280Ah	280Ah
Rated energy	14.336kWh	14.336kWh	14.336kWh	14.336kWh	14.336kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V	51.2V
Voltage range	44.8~57.6V	44.8~57.6V	44.8~57.6V	44.8~57.6V	44.8~57.6V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤8mΩ	≤8mΩ	≤8mΩ	≤8mΩ	≤8mΩ
Dimension(W/H/D)	523/231/805mm	523/231/805mm	523/231/805mm	523/231/805mm	523/231/805mm
Weight	113kg	113kg	113kg	113kg	113kg

Battery rack specification					
Configuration	8 modules + 1 BPU	9 modules + 1 BPU	10 modules + 1 BPU	11 modules + 1 BPU	8 modules + 1 BPU
Rated capacity	280Ah	280Ah	280Ah	280Ah	280Ah
Rated energy	114.688kWh	129.024kWh	143.36kWh	157.696kWh	114.688kWh
Rated voltage	409.6V	460.8V	512V	563.2V	409.6V
Voltage range	358.4~460.8V	403.2~518.4V	448~576V	492.8~633.6V	358.4~460.8V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤64mΩ	≤72mΩ	≤80mΩ	≤88mΩ	≤64mΩ
Display	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen
BMS	Included	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485	RS485
Max. altitude	3000m	3000m	3000m	3000m	3000m
Dimension(W/H/D)mm	1055/1615/755(0.5C)	1055/1615/755(0.5C)	1055/1615/755(0.5C)	1055/1615/755(0.5C)	528/2380/755(0.5C)
	1090/1615/755(1C)	1090/1615/755(1C)	1090/1615/755(1C)	1090/1615/755(1C)	528/2380/755(1C)
Weight	1064kg	1157kg	1270kg	1383kg	999kg
Protection degree	IP20	IP20	IP20	IP20	IP20

BMS parameters on LCD						
Cell voltage	Yes	Yes	Yes	Yes	Yes	
Cell hight voltage	Yes	Yes	Yes	Yes	Yes	
Cell low voltage	Yes	Yes	Yes	Yes	Yes	
Cell temperature	Yes	Yes	Yes	Yes	Yes	
Charge and dicharge current	Yes	Yes	Yes	Yes	Yes	
Total battery voltage	Yes	Yes	Yes	Yes	Yes	
Battery SOC	Yes	Yes	Yes	Yes	Yes	
Fault warning	Yes	Yes	Yes	Yes	Yes	

Protection					
Short circuit protection	Yes	Yes	Yes	Yes	Yes
Over current protection	Yes	Yes	Yes	Yes	Yes
Over charge protection	Yes	Yes	Yes	Yes	Yes
Over discharge protection	Yes	Yes	Yes	Yes	Yes
Cell over voltage protection	Yes	Yes	Yes	Yes	Yes
Cell under voltage protection	Yes	Yes	Yes	Yes	Yes
Over temperature protection	Yes	Yes	Yes	Yes	Yes

CE, CB, UL, UN38.3, IEC62619, MSDS, ROHS



	BR172R	BR186R	BR200R	BR215R
Battery module specification	on			
Configuration	16S1P	16S1P	16S1P	16S1P
Rated capacity	280Ah	280Ah	280Ah	280Ah
Rated energy	14.336kWh	14.336kWh	14.336kWh	14.336kWh
Rated voltage	51.2V	51.2V	51.2V	51.2V
Voltage range	44.8~57.6V	44.8~57.6V	44.8~57.6V	44.8~57.6V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤8mΩ	≤8mΩ	≤8mΩ	≤8mΩ
Dimension(W/H/D)	523/231/805mm	523/231/805mm	523/231/805mm	523/231/805mm
Weight	113kg	113kg	113kg	113kg
Battery rack specification				
Configuration	12 modules + 1 BPU	13 modules + 1 BPU	14 modules + 1 BPU	15 modules + 1 BPU
Rated capacity	280Ah	280Ah	280Ah	280Ah
Rated energy	172.032kWh	186.386kWh	200.704kWh	215.04kWh
Rated voltage	614.4V	665.6V	716.8V	768V

Configuration	12 modules + 1 BPU	13 modules + 1 BPU	14 modules + 1 BPU	15 modules + 1 BPU
Rated capacity	280Ah	280Ah	280Ah	280Ah
Rated energy	172.032kWh	186.386kWh	200.704kWh	215.04kWh
Rated voltage	614.4V	665.6V	716.8V	768V
Voltage range	537.6~691.2V	582.4~748.8V	627.2~806.4V	672~864V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C
Rated charge/discharge	1C(Opt)	1C(Opt)	1C(Opt)	1C(Opt)
AC internal resistance	≤96mΩ	≤104mΩ	≤112mΩ	≤120mΩ
Display	7" Touch screen	7" Touch screen	7" Touch screen	7" Touch screen
BMS	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485
Max. altitude	3000m	3000m	3000m	3000m
Dimension(W/H/D)mm	1055/2125/755(0.5C)	1055/2125/755(0.5C)	1055/2125/755(0.5C)	1055/2125/755(0.5C)
	1090/2125/755(1C)	1090/2125/755(1C)	1090/2125/755(1C)	1090/2125/755(1C)
Weight	1511kg	1624kg	1737kg	1850kg
Protection degree	IP20	IP20	IP20	IP20

BMS parameters on LCD				
Cell voltage	Yes	Yes	Yes	Yes
Cell hight voltage	Yes	Yes	Yes	Yes
Cell low voltage	Yes	Yes	Yes	Yes
Cell temperature	Yes	Yes	Yes	Yes
Charge and dicharge current	Yes	Yes	Yes	Yes
Total battery voltage	Yes	Yes	Yes	Yes
Battery SOC	Yes	Yes	Yes	Yes
Fault warning	Yes	Yes	Yes	Yes

Protection				
Short circuit protection	Yes	Yes	Yes	Yes
Over current protection	Yes	Yes	Yes	Yes
Over charge protection	Yes	Yes	Yes	Yes
Over discharge protection	Yes	Yes	Yes	Yes
Cell over voltage protection	Yes	Yes	Yes	Yes
Cell under voltage protection	Yes	Yes	Yes	Yes
Over temperature protection	Yes	Yes	Yes	Yes

CE, CB, UL, UN38.3, IEC62619, MSDS, ROHS

EnerLog

Data logger for overall system monitoring collects operation data from different units via Modbus RS485 and communicates with the ATESS server via Ethernet.

Features



Up to 32 devices connection



Support external sensors to realize the zero-export function



Multi-function and high performance



Local web server for easy configuration

EnerLog

POWER

NETWORK

R\$485.1

R\$485.2

R\$485.3

EnerLog

Hardware Parameters	
Power adapter	Input: 100-240V, 50/60Hz AC Output 12V(+/-15%), 1A DC
Power consumption	2.5W

Application Parameters		
Max. communication range	500m	
Communication with inverters	RS485	
Communication with server	TCP(Modbus TCP protocol)	
Support network	Ethernet	
Data transfer interval	5 Minutes	
Default server URL	ess-server.atesspower.com	

General Information		
Dimension(W/H/D)	175/105/31mm	
Weight	320g	
Language	Chinese, English	
Mounting	Wall-mounted	
Operating temperature	-30°C~+60°C	
Degree of protection	IP30	
Warranty	1 year	
Certificate	CE	

EnerClo

ATESS monitoring cloud platform for different applications including residential, commercial, and utility grade on/off grid solar storage systems.

Features

Quick and easy overview

Professional analysis

PC and mobile phone accessible

Real-time monitoring

Detail report downloadable

Online control and maintenance

EnerClo

All

Languages

Available languages Chinese, English, French, Greek, German, Nederlands, Italian, Japanese, Polish, Portuguese, Spanish, Turkish, Vietnamese, Korean

System Requirments

Supported operating systems

Recommended browsers Internet explore 8, Firefox 5, Google chrome 14, Safari 5, Opera 11
Supported data logger EnerLog

Access

Website www.enerclo-atesspower.com

Plant Information

Plant overview Quick yield overview of all your PV plants

Specified plant All important data at a glance including energy output, yield gains, environment status

Plant installation data Summary of all plant information which contains installation data, location data and other key devices

Device overview Display of all important data about data logger, environment monitor and other key devices

Time period 5 mins

Plant Management

Account User could manage all PV plants with one same account

Monitoring

Inverter status All inverter running status are recorded automatically, the warning of fault is highlighted immediately

Status Reporting

Event reports Timely e-mail reports on system fault and plant error

Background Operating

Plant management

Device management

Intuitive operation to manage all devices

Inverter setting

Simple parameters setting for inverters including power management

EnerView

Mobile phone app available on both IOS and Android to access EnerClo for online monitoring and maintenance

Features

- Quick and easy overview
- Professional analysis
- PC and mobile phone accessible
- Real-time monitoring
- Detail report downloadable
- Online control and maintenance



EnerView

EnerLog

General Data	
Available languages	English, Chinese
Supported operating systems	Android/iOS
Recommended browsers	All
Source of data	ess-server.atesspower.com

Supported data logger

Plant Information	
Plant overview	Quick yield overview of all your PV plants
Specified plant	All important data at a glance including energy output, yield gains, environment status
Device overview	Display of all important data about the data logger, environment monitor, and other key devices
Plant event log	Display of all the warning events of the plant

Device Information	
Inverter status	All inverters' running status is recorded automatically, and the warning of fault is highlighted immediately
Event reports	Timely e-mail reports on system fault and plant error
Plant management	Add a new plant, edit and delete the existing plant
Device management	intuitive operation to manage all devices
Inverter setting	Simple parameters setting for inverters including power management

NOVO EVA-07/09/12S-PU

Single-phase AC home electric vehicle charging station, Type 1 plug, single output, US standard.



Features

((•))	Programmab	le cha	rging	mode

Compact and exquisite



Comprehensive protection

US standard



Multiple communication modes



Flexible installation

Model	NOVO EVA-07S-PU	NOVO EVA-09S-PU	NOVO EVA-12S-PU
Input & Output			
Input voltage	240V AC	240V AC	240V AC
Input frequency		60Hz	
Output voltage	240V AC	240V AC	240V AC
Max.output power	7.6kW	9.6kW	12kW
Max.output current	32A	40A	50A
Charging interface type		Type1	
Connection		Plug	
Cable Length		25ft(7.6m)	
Number of connection		1	
Protection			
Over voltage protection		Yes	
Under voltage protection		Yes	
Over load protection		Yes	
Earth leakage protection		20mA CCID	
Over-temp protection		Yes	
Lightning protection		Yes	
Function & Accessory			
Ethernet/WIFI/4G		Yes/Yes/Opt	
LCD		Opt	
Charging Mode		APP / RFID(Opt) / Plug and charge	
LED Indicator Light		Yes	
Intelligent power adjustment		Yes	
PV linkage		Yes	
Installation		Floor/wall-mounting	
Appearance colour	Black/Silver		
OCPP	1.6JSON		
Working Environment			
Ingress Protection	NEMA 3R		
Operating temperature	-22°F ~+122°F		
Relative humidity	5-95% non-condensing		
Maximum altitude	6500ft(2000m)		
Cooling	Natural cooling		
Standby power consumption	<8W		
Mechanical			
Dimension (W/H/D)	246/382/162mm		
Weight	<5kg	<6kg	<7kg
Certificate & Standard			
Certificate	UL, CSA		
Standard	UL2594, CSA-C22.2, UL2231-1, UL2231-2, UL1998, FCC part15		

50



Large capacity fast DC EV charging stationfor public use, CCS Type 1 plug, US standard.



Features

((-)) Programmable charging mode

Comprehensive protection

Multiple communication modes

*

7 inch touch screen

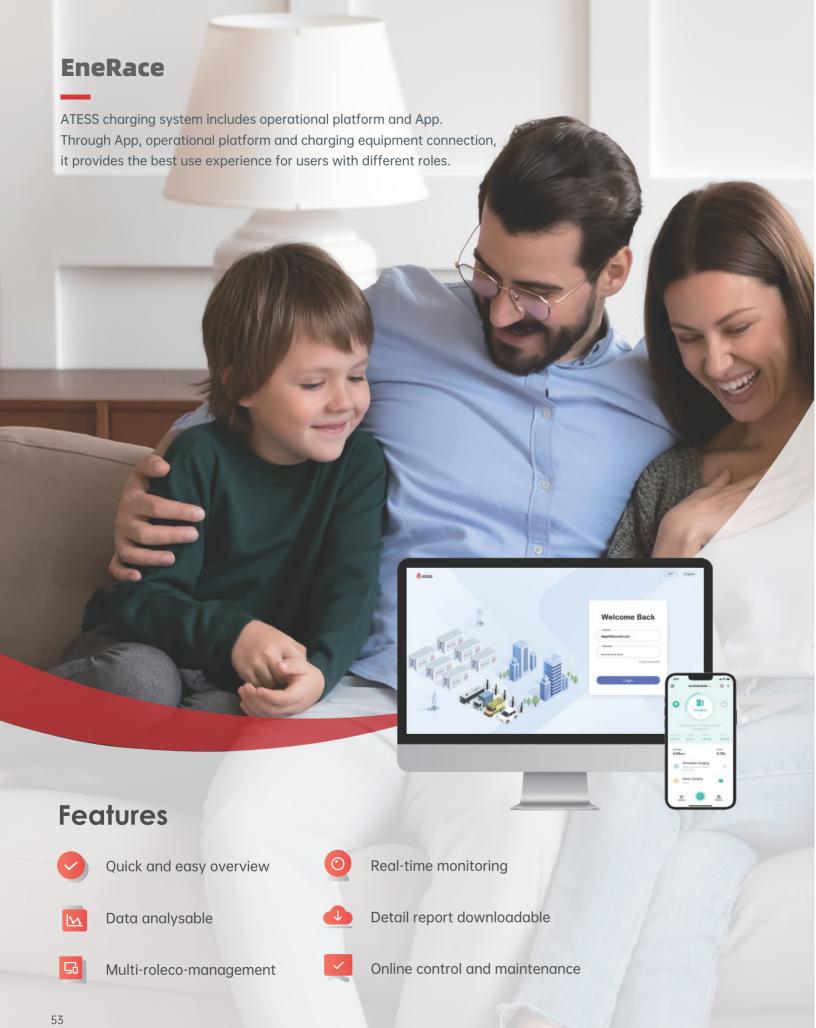


US standard

4

Flexible installation

Model	EVD-40SU	EVD-40DU
Input & Output		
Rated input voltage	208/240/48	0 VAC
Rated input current	110/102/5	51A
AC input connection	L1/L2/L3/PE(Three pho	ase, No Neutral)
Rated frequency	60Hz	
DC connector type	SAE J1772	CCS1
Output voltage Range	150-1000	0V
Max.output power	37.6-40k	W
Max.output current	100A	Single output: 100A Double output: 100A
Voltage accuracy	≤±0.5%	6
Current accuracy	≤±1% (at 20%-100% d	of rated power)
Voltage-regulating accuracy	≤±0.5%	6
Current-regulating accuracy	≤±1%	
Ripple coefficient	Peak≤±1	1%
Metering accuracy	0.50%	
Efficiency	>95%	
Power factor	98%	
Cable length	16ft(5m	n)
Protection		
Over voltage protection	Yes	
Under voltage protection	Yes	
Over load protection	Yes	
Over-temp protection	Yes	
Lightning protection	Yes	
Emergency Protection	Yes	
Function & Accessory		
Display	7 inch touch	screen
Ethernet/WIFI/4G	Yes/Yes/0	Opt
Charging mode	APP/ RFID(Opt) /plu	ig and charge
Indicator	Yes	
OCPP	1.6JSON	
Working Environment		
Ingress Protection	NEMA 3	SR .
Operating temperature	-22°F ~+122°F	
Relative humidity	5-95% non-condensing	
Maximum altitude	6500ft(2000m)	
Cooling	Forced air	
Standby power consumption	<40W	
Noise emission	≤65db	
Mechanical		
Dimension (W/H/D)	632/858/300mm	
Weight	90kg	95kg
Certificate		
	UL, CS/	A



	EneRace		
Charging system	The charging system includes operational platform and App. Through App, operational platform and charging equipment connection, it provides the best use experience for users with different roles.		
Operational platform	Operational platform mainly for operators to provide user management, monitoring and fault early warning, RFID card charger management functions such as service.		
Mobile APP	Mobile App for end users to provide remote monitoring, charging in advance, peak valley charging function such as service.		





Model	NOVO EVA-07/09/12S-PU	
Mounting pole		
Dimension (W/H/D)	255/1500/154mm	
Weight	11kg	



Model	EVD-40SU	EVD-40DU	
Mounting pole			
Dimension (W/H/D)	500/1652/300mm		
Weight	31kg		



Model	CARD WRITER		
Contactless IC card	Supports Mifare 1 cards, TypeA CPU cards, and TypeB CPU cards that comply with the ISO14443 standard widely applied in the market.		
Standard	RF interface that complies with ISO/IEC14443 TypeA and TypeB standard		
Working frequency	13.56 MHz		
Perating temperature	-20°C ~ 65°C;		
Storage temperature	-20°C ~ 70°C;		
Relative humidity	20-90%		
Protection	TypeA CPU cards and TypeB CPU cards (embedded with CPU chips) for better encryption and security		



Model	Multi-charge manager		
Specification			
System capacity	50KW	100KW	240KW
Normal input voltage/ range	400Vac 320~480Vac		
Normal input frequency/range		50/60Hz 45-55Hz/55-65Hz	
Max. detection current	150A	250A	600A
Charger max.	32PCS		
Max. communication distance	RS485 shielded twisted pair cable : 500m Ethernet cable : 100m		
Dimensions(W/H/D)	400*362*160mm		
Weight	10KG		
Operating temperature	-20°C~+50°C		
Protection degree	IP 65		
Relative humidity	0~95%		
Certification	CE		
Operating temperature Protection degree Relative humidity	-20°C~+50°C IP 65 0~95%		

Racecourse storage power station

Location: Jamaica

Capacity: 1.7MW / 5MWh

Product: HPS100/PCS500, BR100/145





Peruvian Amazon Basin

Location: Perú Capacity: ESS 540kW/ 1666.56kWh Product: HPS150*2, HPS120*2, BR217

Auaris

Location: Brazil Capacity: ESS100kW/ 248.4kWh Product: HPS50*2





3 off-grid power plants in Jujuy

Location: Argentina Capacity: ESS 540kW/ 1945.2kWh Product: HPS120*2, HPS100*2, HPS50*2

Brazilian military hybrid Project

Location: Jamaica Capacity: 100kW/200kWh Product: HPS100





Micro grid system for remote village

Location: Suriname Capacity: 250kW / 1MWh Product: PCS250



Hybrid power plant

Location: Poland Capacity: 250kW / 500kWh Product: HPS50, BR100T



Load-shedding application

Location: South Africa Capacity: 750kW / 1.5MWh Product: PCS250



Hybrid power station for factory

Location: South Africa Capacity: 1MW / 1.3MWh Product: PCS500





Charging station for business district

Location: UK Product: EVA-22D-SE



Public charging station

Location: France Product: REVO EVD-180D



Sideway charging station

Location: Italy Product: EVD-40S



Fast charging station for 4S store

Location: Hungary Product: EVC-AC22D/DC150D