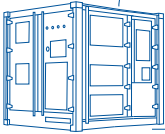


Integrated Energy Storage Power System—— Industrial and Commercial Energy Storage

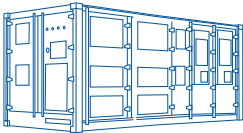
BRES-240-100

Battery capacity: **240kWh**
PCS capacity: **100kW**
Size: **1600*1330*2250**(W*D*H)mm



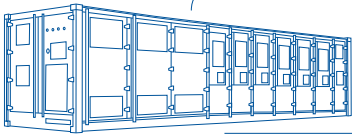
BRES-645-300

Battery capacity: **645kWh**
PCS capacity: **300kW**
Size: **3000*2438*2591**(W*D*H)mm



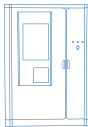
BRES-1075-500

Battery capacity: **1075kWh**
PCS capacity: **500kW**
Size: **6058*2438*2591**(W*D*H)mm



BRES-2150-1000

Battery capacity: **2150kWh**
PCS capacity: **1000kW**
Size: **12196*2438*2591**(W*D*H)mm



BRES Energy Storage Integrated Power System

Model	BRES-240-100		BRES-645-300		BRES-1075-500		BRES-2150-1000	
PV parameter								
Maximum photovoltaic access power	-		200KW		400KW		800KW	
Rated current	-		303A		606A		1212A	
Rated input voltage	-		3W+N+PE, 380/400V					
Rated frequency	-		50Hz/60Hz					
DC side parameter								
Voltage range	DC580V-DC900V							
DC channel	1		3		5		10	
Rated single channel current	170A							
AC parameter (on-grid)								
Rated power	100KW		300KW		500KW		1000kW	
Rated grid voltage	3W+N+PE, 380V/400V							
Grid voltage range	-15%~+10%							
Rated grid frequency	50Hz/60Hz							
Grid frequency range	±2Hz							
Output current harmonics	≤ 3% (rated power)							
DC component	<0.5%in							
Power factor range	-0.9~+0.9							
AC parameter (off grid)								
AC parameter (off grid)	-		300KW		500KW		1000KW	
Maximum output power	-		315kVA		525kVA		1050kVA	
Rated output voltage	-		3W+N+PE, 380/400V					
Output voltage harmonics	-		3%					
Rated frequency	-		50Hz/60Hz					
Overload capacity	-		105%; continuous operation; (105%—120%): 10 min; 120%): 1 min					
Battery parameter								
Cell type	Lithium iron phosphate							
Single battery cabinet electricity	215.04kWh							
Number of battery cabinets	1		3		5		10	
Battery system electricity	241.125kWh		645.12kWh		1075.2kWh		2150.4kWh	
Rated running time	2 h (the duration can be customized by adjusting the number of battery modules)							
Cycle life	6,000 times (0.5C @ 25°C charge and discharge @ 90% DOD, EOL 80%)							
Protection								
AC switch	Equipped							
PV electrically-operated AC switch	Equipped							
Grid monitoring	Equipped							
Surge protection	Equipped							
Basic parameter								
Size (W*D*H) (mm)	1600*1330*2250		3000*2438*2591		6058*2438*2591		12196*2438*2591	
Weight	2500Kg		10000Kg		16000Kg		28000Kg	
Isolation mode	-		Isolation transformer (built-in)					
On-grid and off grid switching device	STS (optional)		STS (electronic switch)				Electrically-operated	
Protection grade	IP54 for outdoor type							
Working temperature range	-20°C—55°C (derating above 45°C)							
Relative humidity (without condensing)	0 % RH — 95 % RH without condensing							
Temperature control method	Battery compartment: air conditioning; Electrical compartment: air cooling							
Maximum working altitude	2,000 m at 45°C; 2,000 m—4,000 m with derating use							
Display	Touch screen							
External communication interface	RS485, LAN							
Communication protocol	Modbus-RTU, Modbus-TCP							

CONTENTS

GRES

BRES