

# BESS

## Hybrid Commercial and Industrial ESS



### • Features

- All-in-one design with a high degree of integration.
- Modular design with optional modules of different sizes.
- Support for grid-connected and off-grid operation
- MPPT Solar controller available as an option
- IP54 class fire and explosion-proof housing
- Patented air duct design, intelligent air cooling, 3-5°C temperature difference of the battery core

### • Applications



Self-Consumption



Off grid



Demand Charge



Back Up



DG+BESS



Micro-grid



Smooth output



Peak Shifting

**• Technical Parameter**

<b>BESS Series Hybrid Commercial and Industrial ESS</b>			
Model	60-120(-60)	60-160(-60)	100-160 (-60)
<b>PCS DCspecification</b>			
DC voltage range	400~850Vdc		
Max. DC current	140A	105A	165A
<b>AC specifaition</b>			
AC output power	60KW	60KW	100KW
AC rated voltage	380Vac/400Vac		
Rated frequency	50Hz/60Hz		
AC rated current	91A/87A	91A/87A	152A/144A
Output THDi	≤3%		
AC PF	-1~+1		
<b>MPPT(Optional)</b>			
PV DC.Max Voltage	1000V		
MPPT Voltage Range	300-800V(The open-circuit voltage of the PV system is lower than the float voltage of the battery.)		
Number of MPPT paths	4		
Number of branch inputs	8		
Max. branch current	13A		
Voltage range	800V		
Rated current	80A		
Max. output current	104A		
Max. efficiency	>99%		
<b>Battery system</b>			
DC Voltage Range	403~518Vdc	492~633.6Vdc	492~633.6Vdc
Total Battery Capacity	128.97KWH	157.63KWH	
Cell	3.2V280AH		
Battery module	51.2Vdc 14.33KWH		
Battery module dimension(W*D*H)	250*547*763mm		
Battery Module Qty.	9S	11S	
<b>General Data</b>			
System highest efficiency	97.50%		
AC connection	3P3W/3P4W		
Cooling	Air conditioning cooling +intelligent air cooling		
Noise Level	70dBA@2m		
Temperature Range	-20°C ~ 45°C		
Protection Level	IP54		
Max elevation	≤2000m		
Humidity Range	0~100%(No condensing)		
Display	7"Color Touch Screen		
Upper Communication Mode	ModBusTCP/IP		
Communication Port	RS485,CAN,Ethernet		