

# Galaxy Series ESS

## All-in-One Storage System

20K-120AS  
30K-120AS  
40K-120AS  
50K-120AS

The Galaxy Series ESS is a All-in-One storage system for commercial business with compatible design. It works with 50kW PCS and 120kWh batteries system. It supports storing energy from diesel generator.



## Efficient

Advanced electrical technology with up to 98.2% efficiency  
All-in-one design and highly integrated

## User-friendly

Industrial design with a modern aesthetic look  
Easy to install and simple to use  
Grid-support & grid-forming

## All-in-one

Modular design with different optional part.  
Parallel installation side-by-side or back-to-back.  
Supports storing energy from diesel generator.  
Max. 10 pcs parallel for on-grid and off-grid operation;  
Support multiple batteries parallel

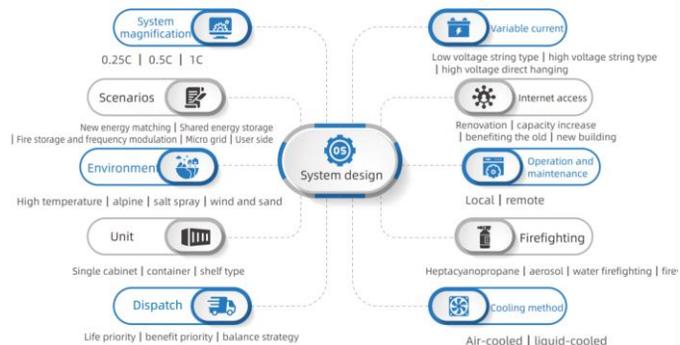
## Reliable

IP55 protection degree for outside installation  
Independent design of electrical structure and battery system

## Intelligent

Exclusive Li-ion battery BMS and EMS management  
Time-slot function to save cost with peak-valley

### System design capability



Model	20K-120AS	30K-120AS	40K-120AS	50K-120AS
<b>DC Data</b>				
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Battery Energy	188.66kWh/1P30S	188.66kWh/1P30S	188.66kWh/1P30S	188.66kWh/1P30S
Battery Voltage Range	504Vdc ~ 648Vdc	504Vdc ~ 648Vdc	504Vdc ~ 648Vdc	504Vdc ~ 648Vdc
Rated Voltage	576V	576V	576V	576V
Pack	206Ah/LFP 3.2V	206Ah/LFP 3.2V	206Ah/LFP 3.2V	206Ah/LFP 3.2V
Cycle Life	≥ 6000@0.5C 25°C	≥ 6000@0.5C 25°C	≥ 6000@0.5C 25°C	≥ 6000@0.5C 25°C
Communication	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN
<b>PCS Parameters</b>				
Rated Output Power	20KW	30KW	40KW	50KW
Max. Rated Output Power	22KW	33KW	44KW	55KW
Rated Grid Voltage	3L / N / PE 400VAC	3L / N / PE 400VAC	3L / N / PE 400VAC	3L / N / PE 400VAC
Grid Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Output THDi	<3%	<3%	<3%	<3%
Peak Efficiency	98.2%	97.6%	97.6%	97.6%
<b>PV String Input Data</b>				
Max. DC Input Power (W)	30000	39000	52000	65000
MPPT Voltage Range (V)	180V~960V	150V~850V	150V~850V	150V~850V
Start-up Voltage (V)	200	180	180	180
Rated DC Input Voltage (V)	600	600	600	600
No.of MPPT Trackers/ No.of String Per MPPT Tracker	2/2, 2+2	3/2+2+2	4/2+2+2+2	4/2+2+2+2
<b>General Data</b>				
Dimensions (W x D x H)	1100x1000x2100 mm			
Weight of the Whole System	1200 KG(BATT)+35KG/80KG(INVERTER)			
Protection Level	IP55			
Operating Temperature Range	-20°C ~ 50°C			
Relative Humidity	0 ~ 95% (Non-Condensing)			
Warranty	5 Years Product Warranty			
Cooling	Forced Air-Cooling			
Fire Protection	Aerosol Fire Protection			
Certifications	EN62109, EN62477, IEC61000, VDE4105, EN50549			

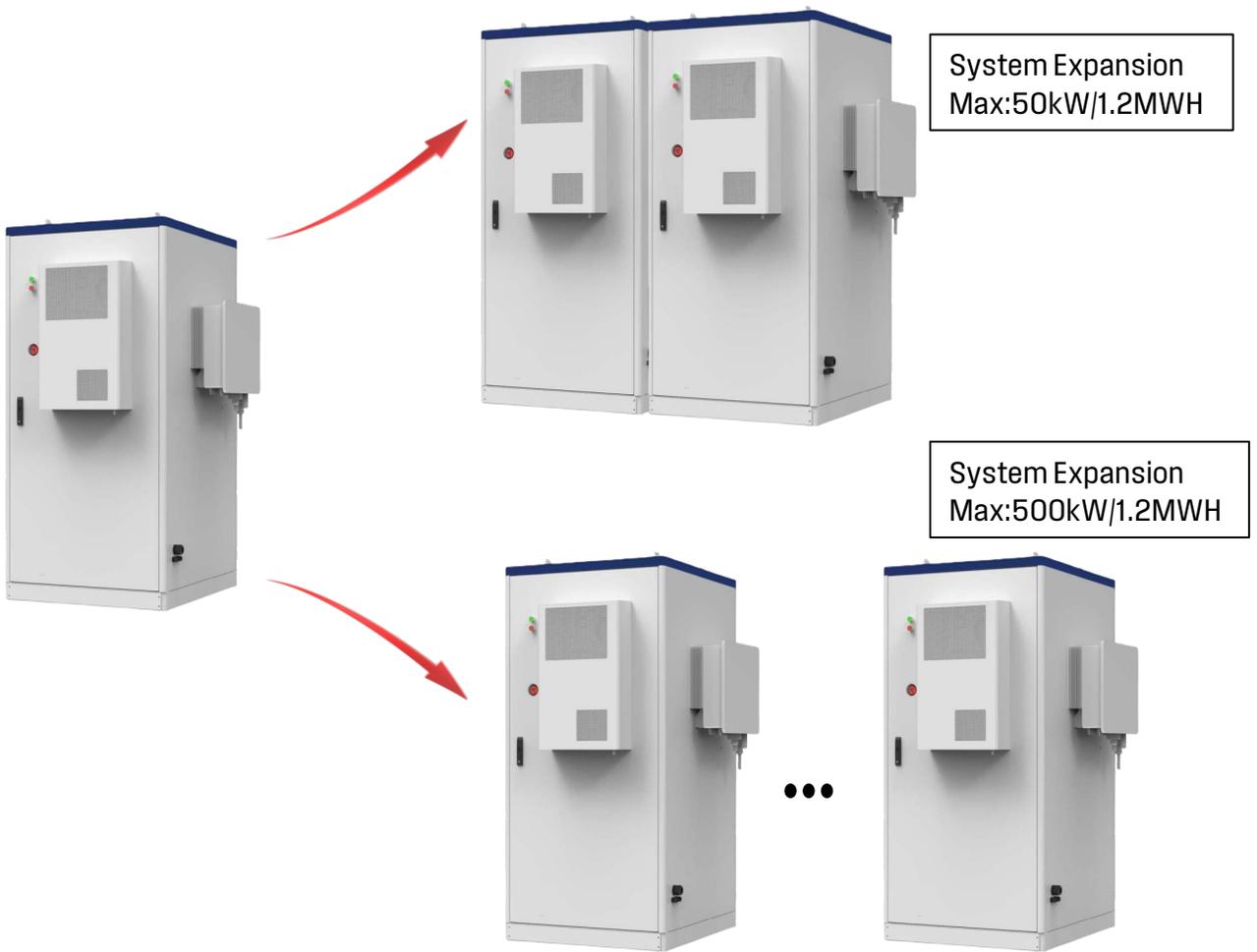
**Commercial & Industrial  
Solution Supports Your  
Business**

**Energy Storage System**



**New Life with Zero Carbon  
Empowered by Technology**

Typical application cases



500kWh with 10 strings version

