



# 30KWh-5KW

three phase / single phase  
off grid system



Modular Stackable  
battery design



Hybrid  
Mode



Multiple  
Protection



WIFI



APP



Auto  
Alarm



Lcd Display

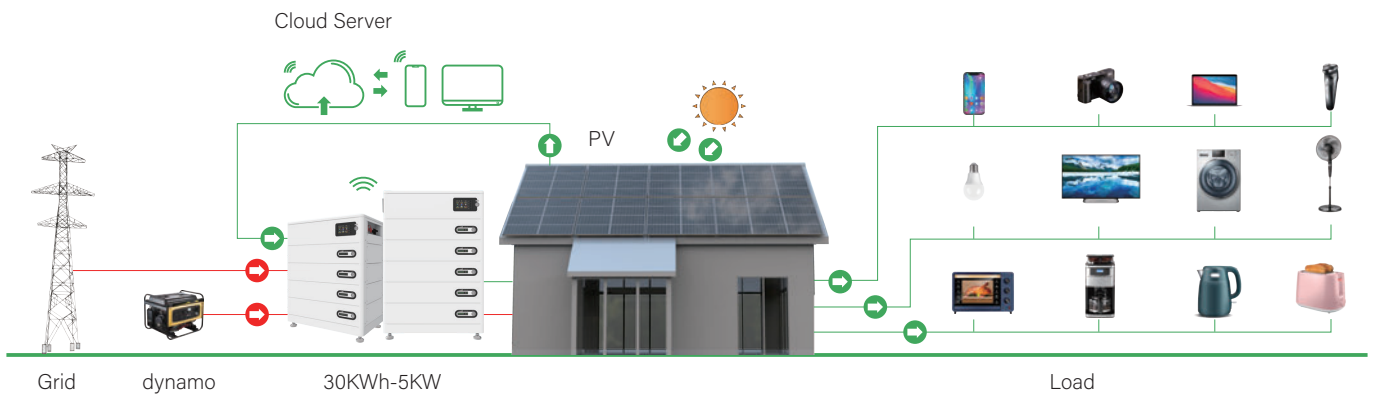


Indoor/Outdoor



Single or  
three phase

## Application



### Features

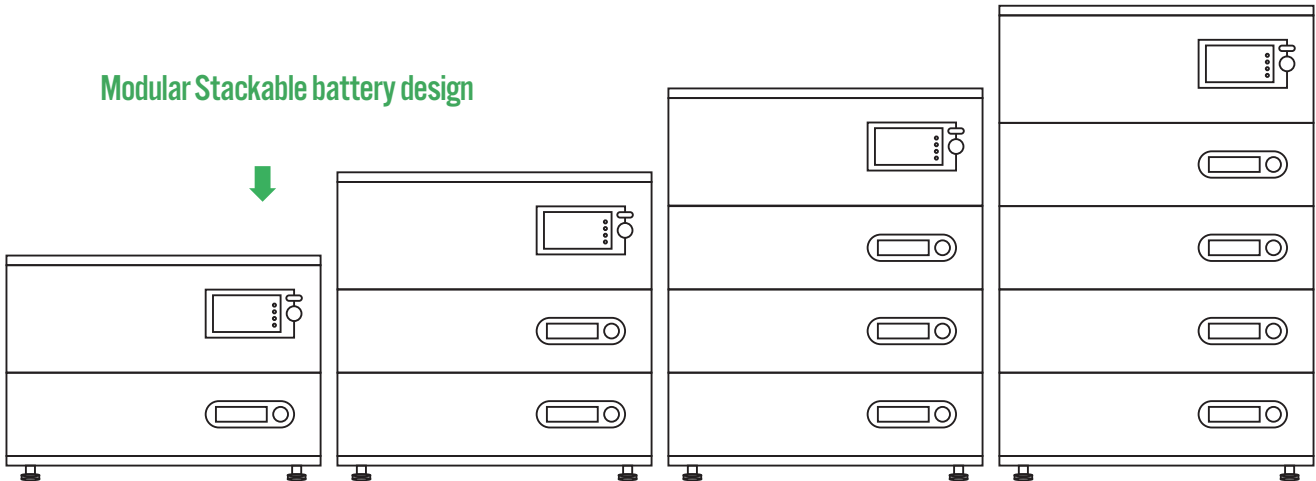
- All-in-one modular design, Both battery and PCS can be racked by module, Indoor installation ;
- Single or three phase European standard or split phase U.S. standard design, Support multi grid standards ;
- Hybrid working modes(Solar-first, Grid-first, Solar-Grid-Battery)
- Easy to install and maintain, meet difference customized design and DIY requirements, with the monitoring of iOs/Android App
- Multiple protection and alarm system, safe and reliable
- Apply with CE certification.



### Application Scenario

Home Backup / Office and other backup scenarios

### Modular Stackable battery design



## Single phase off grid system Parameters

Model Number	ESF-X50-ES						ESF-X70-ES						ESF-X100-ES			
<b>AC Output</b>																
Operation Mode	Single Phase and off -grid(Solar-first, Grid-first, Solar-Grid-Battery)															
Rating power	5000W						7000W						10000W			
AC output voltage range	220/230/240Vac ± 3%						220/230/240Vac ± 3%						220/230/240Vac ± 3%			
Rated Frequency	50/60Hz						50/60Hz						50/60Hz			
Qty of Built-in Inverters	1pcs * 5000W						2pcs * 3500W						2pcs * 5000W			
<b>AC Input</b>																
AC Input Voltage Range	170~280Vac						170~280Vac						170~280Vac			
AC Input Frequency	50/60Hz						50/60Hz						50/60Hz			
<b>Battery data</b>																
Battery Type	Lithium iron phosphate (LFP)						Lithium iron phosphate (LFP)						Lithium iron phosphate (LFP)			
Voltage range	153.6V	204.8V	256V	307.2V	358.4V	409.6V	102.4V	153.6V	204.8V	256V	307.2V	153.6V	204.8V	256V	307.2V	
Basic Stackable battery module	2.56KWh						5.12KWh						5.12KWh			
Qty of Stackable battery modules	3	4	5	6	7	8	2	3	4	5	6	3	4	5	6	
Total Battery Capacity	7.68KWh	10.24KWh	12.8KWh	15.36KWh	17.92KWh	20.48KWh	10.24KWh	15.36KWh	20.48KWh	25.6KWh	30.72KWh	15.36KWh	20.48KWh	25.6KWh	30.72KWh	
Maxcharge/discharge rate	0.5C/0.7C						0.5C/0.7C						0.5C/0.7C			
<b>PV data</b>																
Recommended PV Power	6000W						4000W / 4000W						6000W / 6000W			
Max PV Voltage	450V						450V						450V			
MPPT Voltage Range	120V~430V						120V~430V						120V~430V			
Max PV Charge Current(Battery)	100A						80A/80A						100A/100A			
<b>System data</b>																
Communication	WIFI/RS485						WIFI/RS485						WIFI/RS485			
IP class	IP20						IP20						IP20			
Dimension/(W*H*D) /Weight	Depending on the Qty of Stackable Batteries						Depending on the Qty of Stackable Batteries						Depending on the Qty of Stackable Batteries			

### Three phase off grid system Parameters

Model Number	ESF-X100-ET						ESF-X150-ET					
<b>AC Output</b>												
Operation Mode	Single Phase and off -grid(Solar-first, Grid-first, Solar-Grid-Battery)											
Rating power	10000W						15000W					
AC output voltage range	3L/N/PE /220/380Vac ± 3% or 3L/N/PE /230/400Vac ± 3% or 3L/N/PE /240/415Vac ± 3%											
Rated Frequency	50/60Hz						50/60Hz					
Qty of Built-in Inverters	1pcs * 5000W						2pcs * 3500W					
<b>AC Input</b>												
AC Input Voltage Range	170~280Vac						170~280Vac					
AC Input Frequency	50/60Hz						50/60Hz					
<b>Battery data</b>												
Battery Type	Lithium iron phosphate (LFP)						Lithium iron phosphate (LFP)					
Voltage range	153.6V	204.8V	256V	307.2V	358.4V	409.6V	102.4V	153.6V	204.8V	256V	307.2V	
Basic Stackable battery module	2.56KWh						5.12KWh					
Qty of Stackable battery modules	3	4	5	6	7	8	2	3	4	5	6	
Total Battery Capacity	7.68KWh	10.24KWh	12.8KWh	15.36KWh	17.92KWh	20.48KWh	10.24KWh	15.36KWh	20.48KWh	25.6KWh	30.72KWh	
Maxcharge/discharge rate	0.5C/0.7C						0.5C/0.7C					
<b>PV data</b>												
Recommended PV Power	4000W/4000W/4000W						6000W/6000W/6000W					
Max PV Voltage	450V						450V					
MPPT Voltage Range	120V~430V						120V~430V					
Max PV Charge Current(Battery)	100A/100A/100A						100A/100A/100A					
<b>System data</b>												
Communication	WIFI/RS485						WIFI/RS485					
IP class	IP20						IP20					
Dimension/(W*H*D) /Weight	Depending on the Qty of Stackable Batteries						Depending on the Qty of Stackable Batteries					