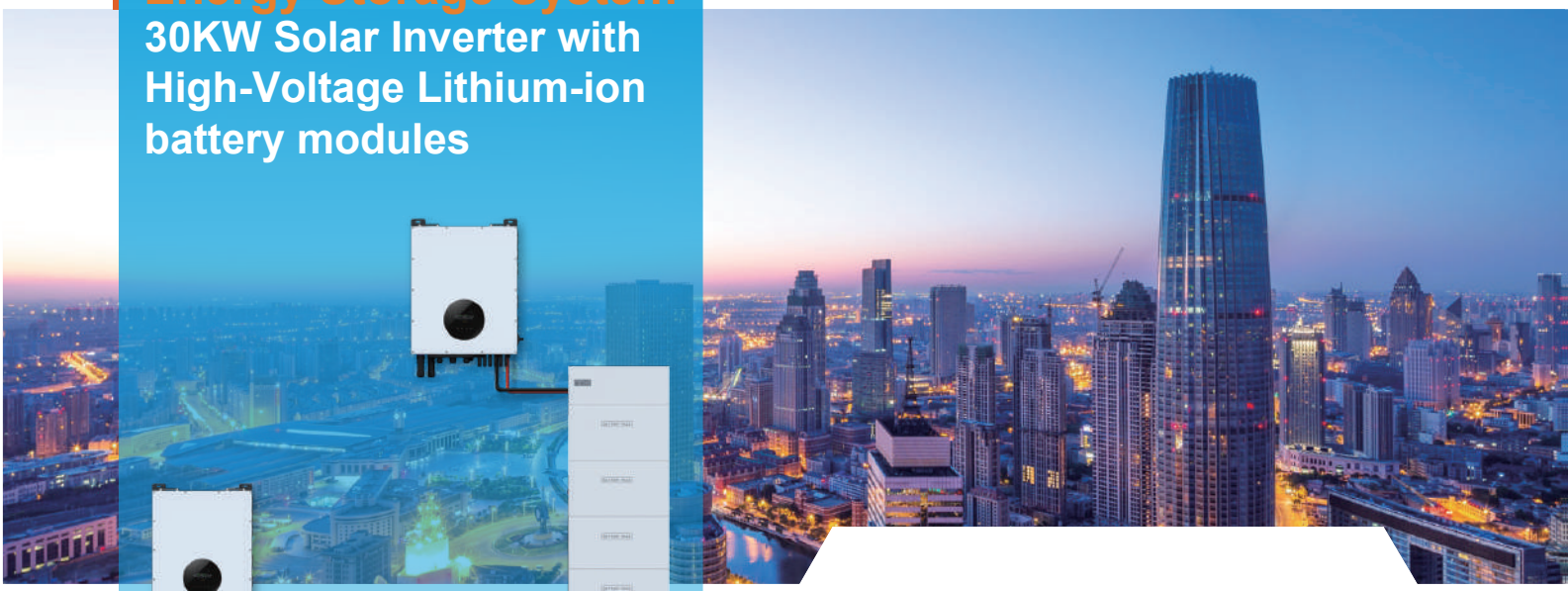
Energy Storage System

30KW Solar Inverter with High-Voltage Lithium-ion battery modules



PRODUCT INTRODUCTION

This integrated cabinet-type energy storage system is mainly composed of the battery, battery management system (BMS), PCS, monitoring system, fire-proof system, and temperature control system. This product is developed for being used in buildings, shopping malls, communities and the end of power distribution networks and is compatible with wall-mounted and cabinet-type PCS. With standard and unitized design, it can be flexibly configured according to actual application requirement.

APPLICATION SCENARIOS

- Public parking lots
- Hospitals and shopping centers
- Power distribution network ends and micro grids

PRODUCT FEATURES

- Highly integrated
- High reliability: adopt high safety LFP batteries, real-time cell voltage and temperature monitoring, pre-warning a mechanism, and advanced fire-extinguishing system
- Protection grade up to IP55
- Modular and standard design: easy maintenance, multi-cabinet parallel connection supported
- Certification: IEC and UN /(cell and battery pack)

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Energy Storage System

Specifications

MODEL	InfiniSolar WP 30KW
Maximum PV Input Power	40,000 W
Rated Output Power	30,000 W
Maximum Charging Power	30,000 W
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 26A, B: 26A, C: 26A
GRID OUTPUT	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Max. Output Current	43.5 A per phase
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency @ Vnominal	96%
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 -280 VAC per phase
Maximum AC Input Current	50 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	96%
BATTERY & CHARGER	
Nominal DC Voltage	576 ~ 950 VDC
Maximum Charging Current	50 A
PHYSICAL	
Dimension, D x W x H (mm)	255 x 660 x 750
Net Weight (kgs)	73

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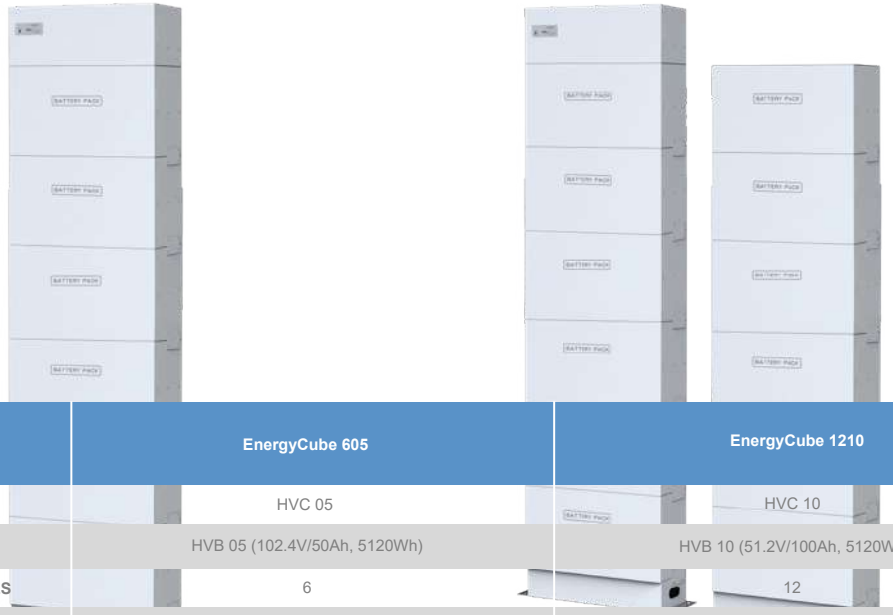

Specifications

BATTERY MODULE	EnergyCube 605	EnergyCube 1210
CONTROLLER MODULE	HVC 05	HVC 10
SINGLE BATTERY MODULE	HVB 05 (102.4V/50Ah, 5120Wh)	HVB 10 (51.2V/100Ah, 5120Wh)
NUMBERS OF BATTERY MODULES	6	12
PARAMETERS		
Nominal Voltage	614.4VDC	614.4VDC
Full Charge Voltage (FC)	691VDC	691VDC
Full Discharge Voltage (FD)	576VDC	576VDC
Typical Capacity	50Ah	100Ah
Typical Energy	30KWh	60KWh
Max Continuous Discharging Current	60A	120A
Max Peak Discharging Current	75A	150A
Protection	BMS & Circuit Breaker	
Charge Voltage	691VDC	691VDC
Charge Current	10A	20A
Maximum Charge Current	25A	50A
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Contstant voltage FC) charge till charge current decline to <0.05C	
Inner Resistance	≤20m ohm	
PHYSICAL		
Single Battery Module – Dimension, D x W x H (mm)	630 x 220 x 320	630 x 220 x 320
Single Battery Module – Net Weight(Kg)	48	45
Controller Module – Dimension, D x W x H (mm)	630 x 220 x 210	630 x 220 x 210
Controller Module – Net Weight(Kg)	9	10
Complete Set – Dimension, D x W x H (mm)	630 x 220 x 2280	630 x 220 x 2280 (including HVC 10) 630 x 220 x 2070 (without HVC 10)
Complete Set – Net Weight(Kg)	300	556 (2 strings)