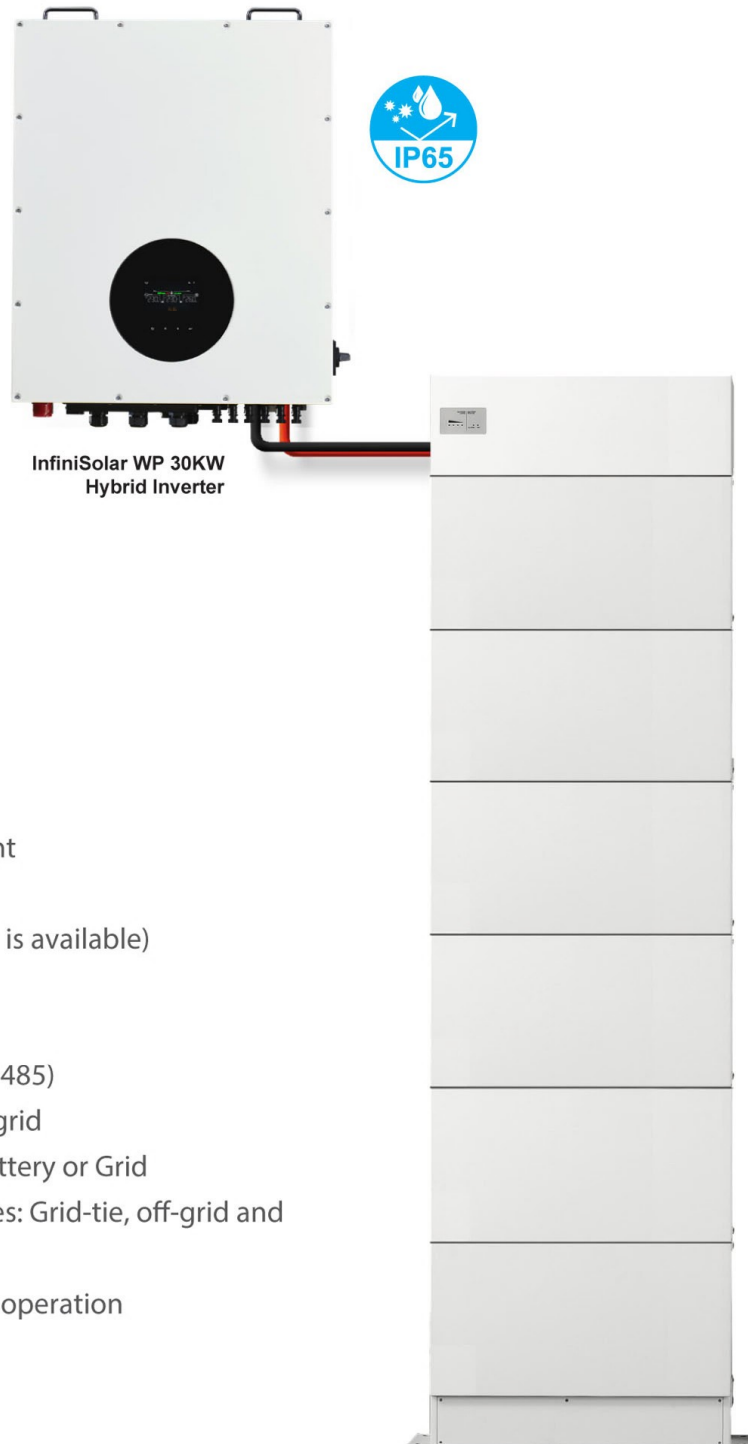


Solar Energy Storage System

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



InfiniSolar WP 30KW
Hybrid Inverter



EnergyCube 605
614.4VDC/50Ah 30KWh
LFP battery pack

Features

- IP65 enclosure for hybrid inverter
- Dual outputs for smart load management
- 150% unbalanced load support
- Built-in WiFi for mobile monitoring (App is available)
- Enhance AC/Solar charger to 50A
- Wide battery input range
- Built-in communication port for BMS (RS485)
- Self-consumption and feed-back to the grid
- Programmable supply priority for PV, battery or Grid
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Lithium Iron Phosphate (LFP) cell
- Scalable Li-Ion battery expansion

Best Performance

50% more discharging ability at **150A 1.5C**

50%

Double rating at peak discharging at **2C**

250% stronger in short circuit protection

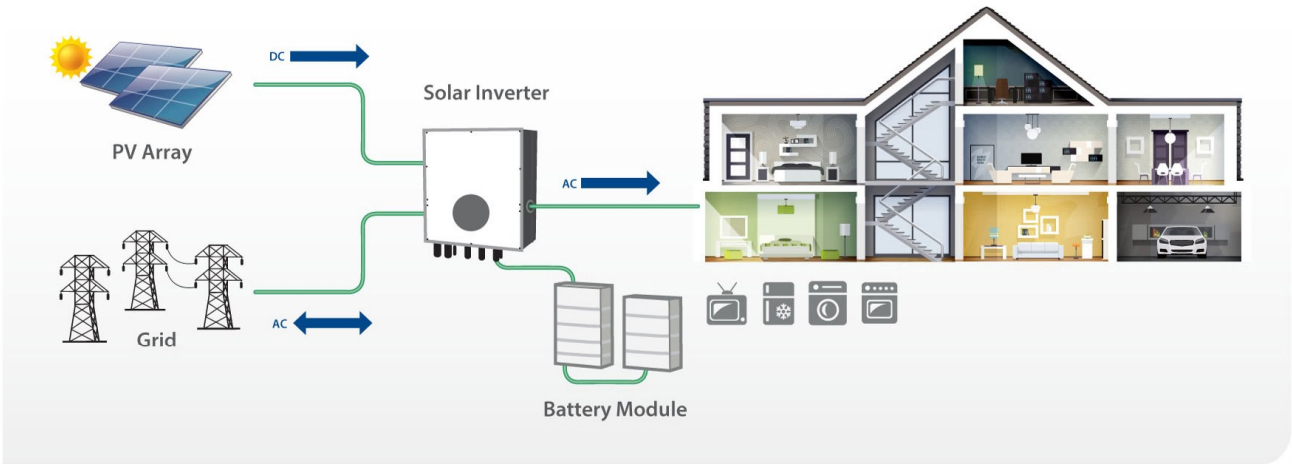
6C

200A circuit breaker supports 1.5C continuously discharging current

Fully charged & balanced in each cell assure longer lifecycle

BACKUP VS Other Brand BACKUP

System Diagram



30KW hybrid inverter with EnergyCube 605

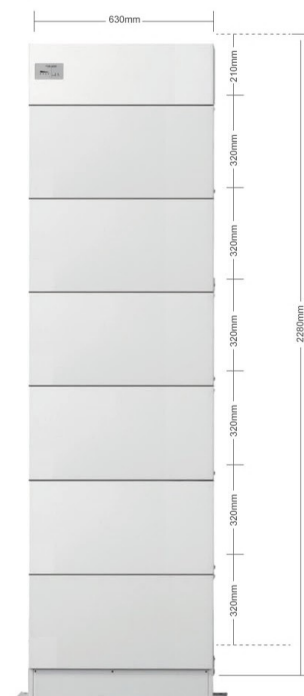
Backup Time	
10KW	3 hrs
20KW	1.5 hrs
30KW	1 hrs

HVC 05 controller module

HVB 05 x 6 pcs 102.4VDC/50Ah Battery Modules

EnergyCube 605
614.4VDC/50Ah 30KWh

DIMENSION



Specifications



MODEL		InfiSolar WP 30KW
Maximum PV Input Power		40,000 W
Rated Output Power		30,000 W
Maximum Charging Power		18,000 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		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		600 ~ 1000 VDC
Maximum Charging Current		30A
PHYSICAL		
Dimension, D x W x H (mm)		255 x 660 x 750
Net Weight (kgs)		73



BATTERY MODEL		EnergyCube 605
CONTROLLER MODULE		HVC 05
SINGLE BATTERY MODULE		HVB 05 (102.4V/50Ah, 5120Wh)
NUMBERS OF BATTERY MODULES		6
PARAMETERS		
Nominal Voltage		614.4VDC
Full Charge Voltage (FC)		691VDC
Full Discharge Voltage (FD)		576VDC
Typical Capacity		50Ah
Typical Energy		30KWh
Max Continuous Discharging Current		60A
Max Peak Discharging Current		75A
Protection		BMS & Circuit Breaker
Charge Voltage		691VDC
Charge Current		10A
Maximum Charge current		25A
Standard Charge Method		0.2C CC (Constant current) charge to FC, CV (Constant 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)	220 x 630 x 320
	Net Weight(Kg)	48
Controller Module	Dimension, D x W x H (mm)	220 x 630 x 210
	Net Weight(Kg)	9
Complete Set	Dimension, D x W x H (mm)	220 x 630 x 2280
	Net Weight(Kg)	300

Product specifications are subject to change without further notice