

EnerPulse 333+ | 30KW- 120KW

Solar DC EV Charger with Energy Storage



IP54 Rated



User Friendly



Touch Screen



Commercial



Wide DC Output Voltage Range



Fast charging



High Efficiency



OCPP



PEV 5430GD-DM



Energrid WP 30KM-HV
30kW Solar Inverter

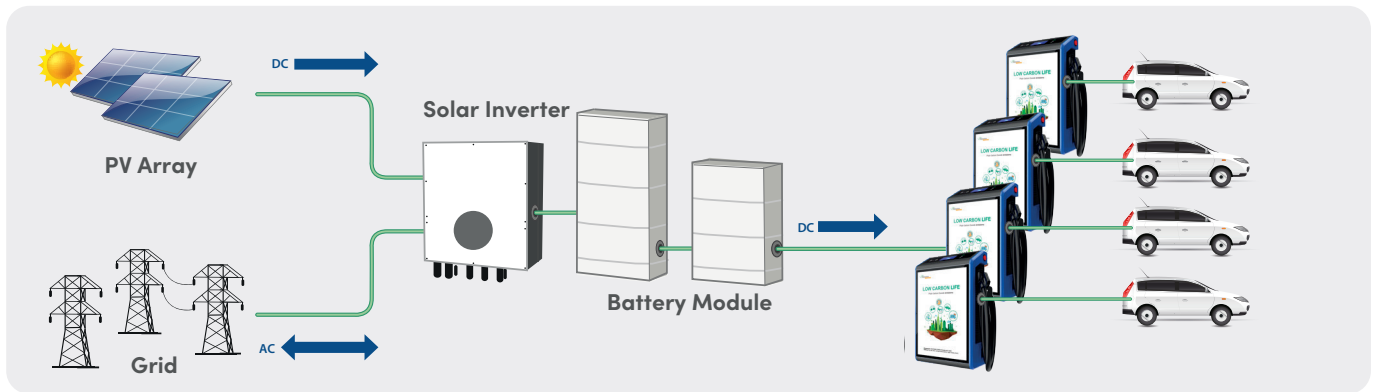
Lithium Iron Phosphate (LFP)
Battery Pack



EnergyCube 605 (30kWh)

- 30KW solar inverter, 30kWh LiFePO4 battery module and 30KW DC coupling type DC EV charger
- High efficiency energy storage with fast EV charger
- Built-in dual outputs in hybrid inverter for smart load management
- LFP (LiFePO4) battery for long life and stable operation
- Supports multiple charging standards (GB, CCS2 and CHAdeMO)
- Integrated OCPP and RF reader for remote payment & control
- IP65 protection level for hybrid inverter to extend the life time under critical environment
- DC couple and AC couple to integrate existing solar system
- Parallel operation up to 4 units for Energrid WP 30KM-HV
- Optional energy meter to establish self-consumption system

System Diagram

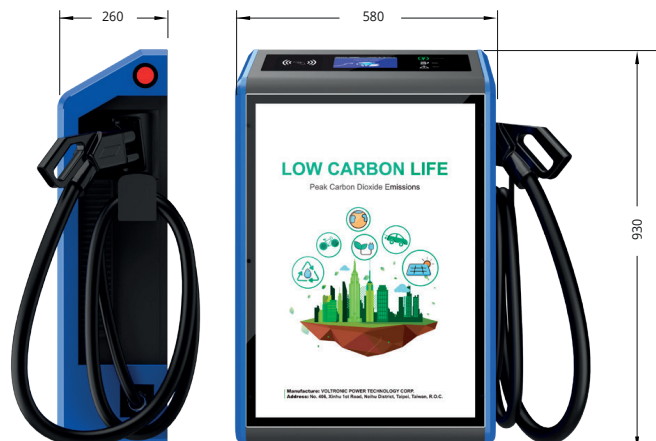


DIMENSIONS

EnergyCube 605



PEV 5430GD-DM



Specifications

INVERTER MODEL		Energrid WP 30KM-HV
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)
Maximum Conversion Efficiency (DC/AC)		97%
BATTERY & CHARGER		
Nominal DC Voltage		500 ~ 900 VDC
Maximum Charging Current		50 A
PHYSICAL		
Dimension, D x W x H (mm)		255 x 660 x 750
Net Weight (kgs)		73
BATTERY MODEL		
CONTROLLER BOX MODULE		EnergyCube 605
SINGLE BATTERY MODULE		HVC 05
NUMBERS OF MODULES		HVB 05 (102.4V/50Ah, 5120Wh)
		6
PARAMETERS		
Nominal Voltage		614.4VDC
Full Charge Voltage (FC)		691.2VDC
Full Discharge Voltage (FD)		537.6VDC
Typical Capacity		50Ah
Typical Energy		30kWh
Max Continuous Discharging Current		60A
Max Peak Discharging Current		75A
Protection		BMS & Circuit Breaker
Charge Voltage		672VDC
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
Cycle Life		6000 Cycles @>80% capacity
Inner Resistance		≤20m ohm
Operating Temperature	Charge	0°C~55 °C
	Discharge	0°C~55 °C
Compliance Safety		IEC 62619, UN38.3
PHYSICAL		
Single Battery Module	Dimension, D x W x H (mm)	220 x 630 x 320
	Net Weight (Kg)	51.3
Controller Box	Dimension, D x W x H (mm)	220 x 630 x 210
	Net Weight (Kg)	9.95
Complete Set	Dimension, D x W x H (mm)	220 x 630 x 1280 & 220 x 630 x 1070
	Net Weight (Kg)	328

Product specifications are subject to change without further notice.

Specifications

MODEL		PEV 5430GD-DM	
Charging Type		DC fast charging	
Outlet Options		CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)	
DC Input Voltage Range		600-800V	
DC Input Power @ 600VDC		54 A, 33 kW	
DC Outlet	DC Output Power Rating	30 kW	
	DC Output Voltage	150-1000 Vdc (Constant power from 300-1000Vdc)	
	Number of EV Served	1	
	Maximum Current*	CCS Cables	100A
CHAdeMO Cables		100A	
GBT Cables		100A	
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m	
Electro-Magnetic Compatibility		Class A (optional Class B) according to EN 61000-6-3:2007	
Distribution Systems		Direct Current (DC) System	
Connector Type		DC 2-Pole connector (Positive/Negative) with Ground	
Protection		Reverse Polarity Protection, Overcurrent, overvoltage, undervoltage, surge protection, ground fault, door safety protection, flood detection protection	
Efficiency		94% (peak)	
Standby Power		< 35 W	
Pre-charge Current		< 1 A	
Leakage Current		0.8 mA	
Energy Metering		Meter for DC inlet and DC outlet	
Cellular Communication		GSM, 4G, LTE	
USER INTERFACE			
Connectivity		4G/3G/Ethernet (RJ45)	
User Authentication		RFID, QR code	
User Interface		7" LCD high-contrast touchscreen, optional 15.6" or 32" LCD display	
Communication Protocols		Proprietary and OCPP 1.6j	
RFID Reader		ISO/IEC 14443 A Mifare RFID reader	
Emergency Button		Yes	
CONFIGURATION			
Software Upgrade		Yes	
Language System		English, Chinese, French, Spanish	
GENERAL CHARACTERISTICS			
Protection Rating		IP54 and IK10 (enclosure) / IK8 (touchscreen) / IP55 (connector)	
Housing Material		SGCC, Optional: SUS430	
Operating Altitude		Up to 2000 m	
Operating Temperature		-35 °C to +55 °C	
Storage Temperature		-40 °C to +70 °C	
Humidity		<95%, non-condensing	
Mounting		Free-standing cabinet	
Dimensions (D x W x H) mm		235.5 x 660 x 1250	
Net Weight (kgs)		80	
COMPLIANCE STANDARDS			
Codes & Standards		IEC/EN 61851-1, IEC 61851-23, IEC 61851-24, IEC 62196-1, IEC 62196-3, GBT18487, GBT20234	
Communication to the EV		DIN 70121, ISO/IEC 15118, CHAdeMO, GBT27930, GBT 34657, GBT 34658	

*Cable can be customized upon request.
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