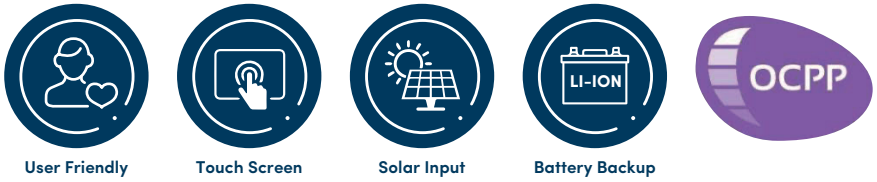
prolink

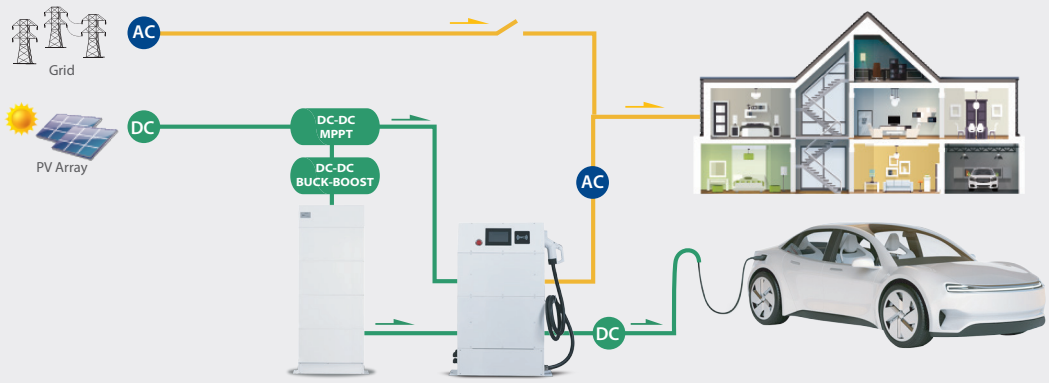
EnerPulse 123 | 30KW



User Friendly | Touch Screen | Solar Input | Battery Backup

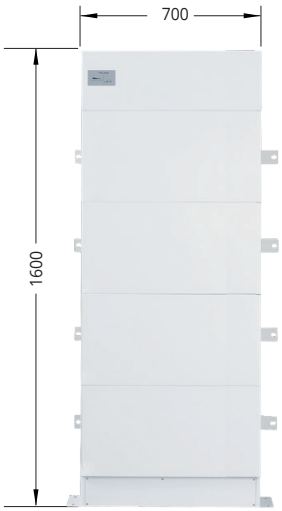
- All-in-one home energy system to integrate 10kW solar inverter, 30kW EV Charger and 20kWh battery storage system
- Integrate 10kW Grid-Tie inverter and backup AC output for home storage system
- DC couple and AC couple to integrate existing solar system
- Lithium-Iron phosphate battery for long life and stable operation
- Supported 30KW DC EV charger to reduce charging time
- Supports multiple charging standards (GB, CCS2, CHAdeMO)
- Integrate OCPP and RF reader for remote payment & control
- IP65 protection level to extend the life time under critical environment
- Optional energy meter to establish self-consumption system

System Diagram

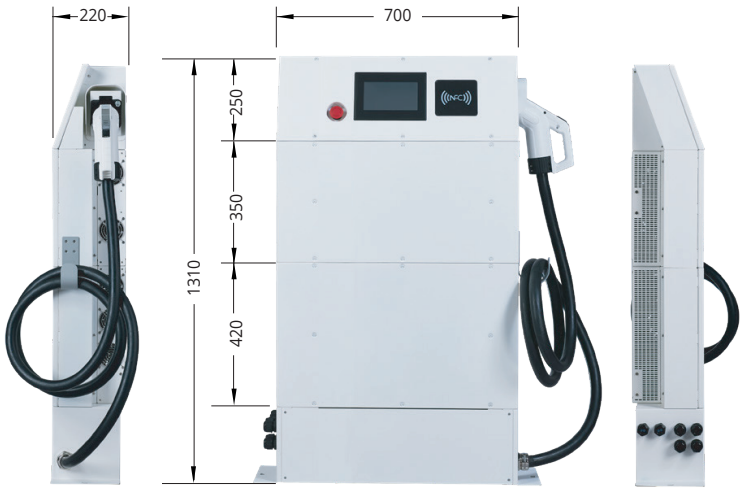


OVERVIEW

EnergyCube 405



ESS_EV



Specifications

MODEL	EnerPulse 123
PV INPUT PARAMETERS	
Maximum PV Input Power	14500 W
Maximum PV Input Voltage	1000 VDC
MPPT Voltage Range	350~900 VDC
MPPT Voltage Range @ Full Load	500~900 VDC
Start-up Voltage	320 VDC
Nominal Input Voltage	720 VDC
Maximum Input Current	A: 18 A ; B: 18 A
Max. Short-circuit Current	25 A
Number of MPPT Trackers	2
Number of Input Strings per MPPT Tracker	1
AC INPUT PARAMETERS	
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	20 A
GRID-TIE OUTPUT PARAMETERS	
Nominal Output Power	10000VA/10000W
Max. Output Power	10000W
Nominal Output Voltage	230 VAC (Phase to N), L1/L2/L3/N/PE
Output Frequency	50/60 Hz
Max. Grid-tie Output Current	18 A per phase
Power Factor	0.8 lead to 0.8 lag
Maximum Input Current Distortion (THDi)	<5%
BACK UP OUTPUT PARAMETERS	
Rated Output Power	10000VA/10000W
Nominal Output Voltage	230 VAC (Phase to N), L1/L2/L3/N/PE
Nominal Output Frequency	50/60 Hz
Maximum Conversion Efficiency (solar to grid)	96%
Maximum Conversion Efficiency (solar to battery)	97%
Maximum Conversion Efficiency (battery to load)	96%
EV CHARGER OUTPUT PARAMETERS	
Charging Type	DC Fast Charging
Outlet Options	CCS2 (Default), CHAdeMO (Optional), GB/T (Optional)
Number of EV Served	Up to 1
DC Outpput Voltage	250~1000 VDC
DC Output Power Rating (Max.)	30KW
DC Output Current (Max)	80 A
Charging Cable Length	3.5m (6m Optional)
Rated Output Power	30 KW
Voltage Regulation Precision	± 0.5%
Current Regulation Precision	≤ ±1%
Short Circuit Current	≤ 10KA
Inrush Current	≤ 100 A
Leakage Current	≤ 0.8mA
Efficiency (DC-DC)	97% Peak
Energy Metering	Metering for DC outlets
Protection	OCP, OVP, UVL, Surge, DC Leakage
INTERFACE AND CONTROL	
Supported Charging Protocol	GB/CCS2/CHAdeMO
User Interface	7" LCD high-contrast touchscreen
BMS Communication	RS485
Communication	OCPP 1.6 Core and Smart Charging Profiles
RFID System	ISO/IEC 14443A/B, ISO/IEC 15393, FeliCa™ 1, NFC reader mode
Emergency Button	Yes

Battery Module specificaton

MODEL		EnergyCube 405
BATTERY MODULE PARAMETERS		
Battery Type		Lithium-Iron Phosphate Battery
Nominal Voltage		409.6 VDC
Full Charge Voltage (FC)		460.8 VDC
Discharge Cut-off Voltage		384 VDC
Typical Capacity		50 Ah
Typical Energy		20KWH
Max Continuous Discharging Current		60 A
Max Discharging Current		75 A
Charge Current		10 A
Max. Charge Power		25 A
Protection		BMS
GENERAL SPECIFICATON		
Operating Temperature Range (°C)		0~55°C
Storage Temperature Range (°C)		-20~70°C
Reletive Humidity Range		0~95%
Max. Altitude		Up to 2000m
Mounting		Free-standing cabinet
Dimension, D x W x H (mm)	ESS_EV	220 x 700 x 1310
	EnergyCube 405	220 x 630 x 1600
Net Weight (kgs)	ESS_EV	80
	EnergyCube 405	221

Product specifications are subject to change without further notice

Ver1.0_26.4.2024

Authorised Distributor/ Reseller:

Compatible with: Windows Mac OS Linux