

G-Flex Series

Outdoor Cabinet ESS For PV Storage & Charging
G-Flex-100(DC100)(215kWh)(EV120)



SPECIFICATION

www.oegreenpower.com

Room 602, No.9, Lane 1789, Hongmei south Road,
Minhang District, Shanghai.



GOGREEN

1.1. Model Description

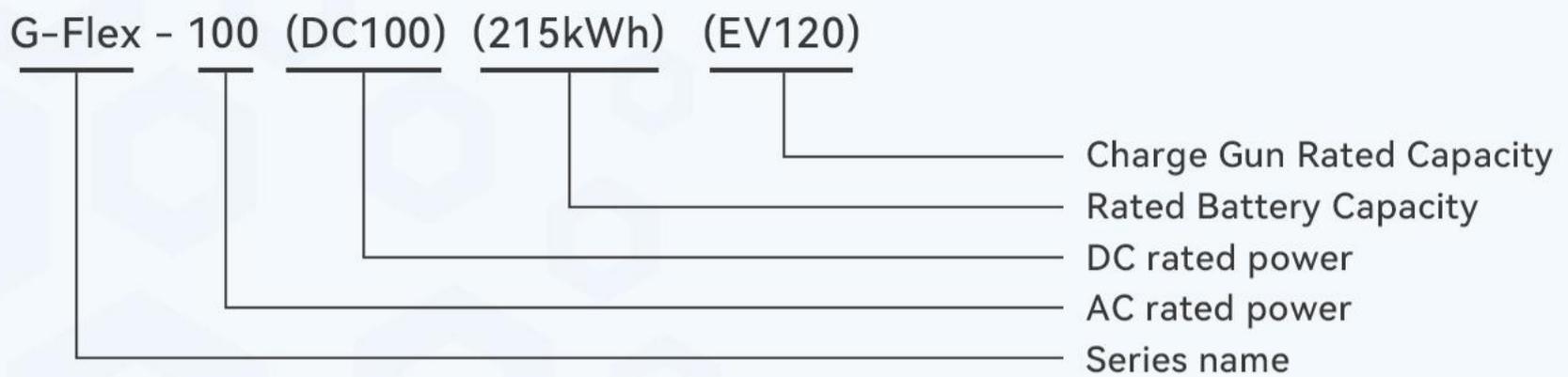


Figure 1-1 Model Identification



Description:

The DC power module are optional components, and the rated output power and battery capacity can be flexibly configured according to project requirements.

1.2. Product Function

Monet series Outdoor Cabinet ESS For PV Storage & Charging integrates energy storage battery, modular PCS, DC Charging module, energy management monitoring system, power distribution system, environmental control system and fire control system. Adopting modularized PCS, it is easy to maintain and expand capacity, and the outdoor cabinet adopts front maintenance, which can reduce the floor space and maintenance access, and is characterized by safety and reliability, rapid deployment, low cost, high energy efficiency and intelligent management.

The operation strategies of the optical storage and charging system under common application scenarios are as follows:

Peak shaving and valley filling:

- when the time-sharing tariff is in the valley: the energy storage cabinet automatically charges and stands by after being filled; when the time-sharing tariff is in the peak: the energy storage cabinet automatically discharges, realizing the arbitrage of the tariff difference, and improving the economic benefits of the optical storage charging system.



Combined PV storage & charging :

- During the day, the photovoltaic power is directly supplied to the charging pile, and the excess power is stored in the energy storage system. At night or when the light is insufficient, the energy storage system supplements the power supply to achieve 24-hour uninterrupted power supply.

1.3. Electrical Wiring Diagram

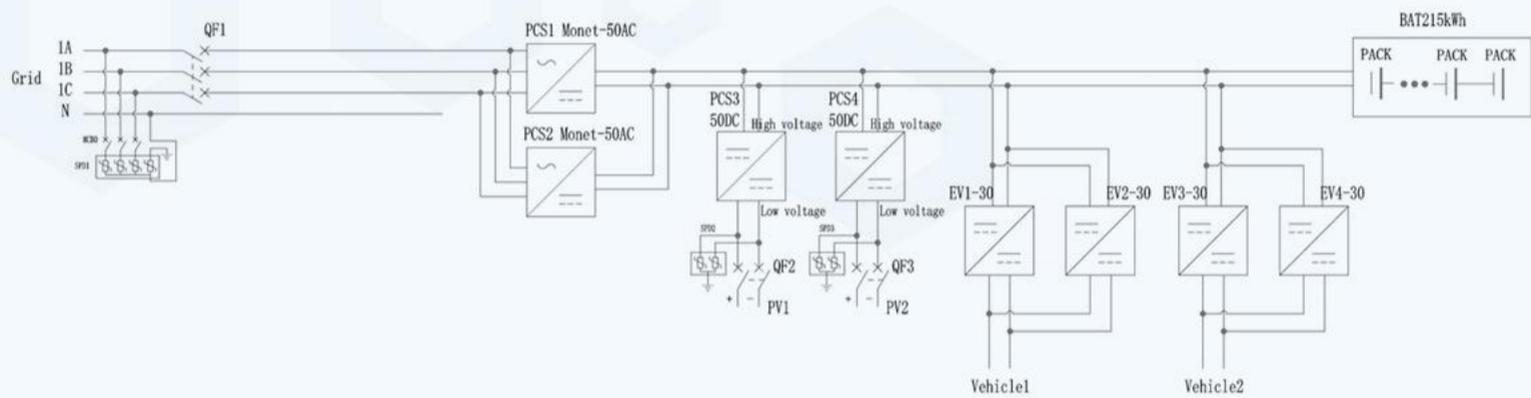


Figure1-2 Electrical Primary Diagram



Description:

The pure grid-connected system scheme is different for different projects, and the circuit is slightly different. The actual one should be subject to the attached drawing of the shipment.

1.4. Product Features

- Highly integrated: Highly integrated multiple systems such as energy storage battery, modular PCS, DC Charging module, and energy management monitoring system into one, reducing footprint and improving system efficiency.
- Photovoltaic charging environmental protection: make full use of solar energy resources to maximize the use of clean energy and self-sufficiency.
- Compatible with a wide range of vehicles: wide range of constant power to meet the power requirements of both low-voltage charging for small vehicles and high-voltage charging for buses.



- One machine with multiple guns: the dual-gun model is designed for independent communication between the two charging circuits, which is simple and reliable; it supports simultaneous charging of two vehicles, which improves the utilization efficiency of the charging pile.
- Multiple charging modes: supports multiple charging modes such as charging by time, charging by power, charging by amount, automatic full, etc. to meet the charging needs of different users.
- Intelligent control: through the advanced energy management monitoring system, intelligent scheduling and control is realized to optimize energy utilization and improve system economy.

1.5. Product Parameters

The following are typical configuration parameters of the Monet series Outdoor Cabinet ESS For PV Storage & Charging system. Actual delivery shall be subject to the technical agreement.

Table 1-1 integrated Energy Storage System Parameters Table

Model	G - Flex - 100 (DC100)(215kWh)(EV120)
Grid port	
Rated AC power	100kW
Max.AC power	110kW
Rated current	144A
Max.current	158A
Rated voltage	400Vac, 3W + PE
Rated frequency	50 / 60Hz (+5Hz)
PV port	
Max.PVinput voltage	Minimum battery voltage - 30V
PVinput power	100kW
MPPTchannels	1 / 214
Battery port	
Battery rated capacity	215kWh
Battery rated voltage	768V
Battery voltage range	672V~864V
Battery type	Lithium iron phosphate battery (LFP)
Battery cell capacity	280Ah
Series of Battery	1P * 20S * 12S
Maximum charge and discharge current	140A

Charging port	
Rated input power	60kW * 2
Rated input current	120A * 2 (500Vdc)
Measurement accuracy	< ± 0.1%
Number of Charging Guns	2
Gunline length	5m
Activation method	Scanning,swiping, APP
Charging method	Auto-fil, byamount, bypower; by time
Display Mode	LED
General Parameters	
Cooling mode	Air cooling
Degree of protection	IP55
Shutdown self-discharge	<0.1%Rated power (Without transformer)
Relative humidity	0~95% (no condensation)
Noise	<75dB
Ambient temperature	25°C to +60°C(with derating at temperatures above 45°C)
Altitude	3000m(>2000m reduction)
Display	LCD
BMS Communication	CAN
EMS Communication	Ethernet / 485
Emergency stop protection	Equipped with emergency stop button, with emergency stop protection function
Protection features	Input over-under-voltage protection, input over-current protection, anti-surge protection, output short-circuit protection, over-temperature protection, anti-backflooding protection, battery active protection, emergency shutdown and other protection functions.
Size (W * D * H)	1800*1200*2300mm
Weight (approx)	2500kg

1.7. Appearance Diagram

