

DR PCS *Off-Grid Inverter*

DR-PCS6520N2FL04

Product Introduction

This single-phase off-grid solar inverter, rated at 6500W, serves as a powerful dual-input/output home green energy solution that seamlessly integrates solar power and energy storage. It features complete lithium battery management and enables smart power management for efficient and reliable household energy use.

Features and Functions

- Built-in 120A charger
- Wide PV input range: 60–500V
- Maximum PV input: 27A
- Low-noise control algorithm
- Can be used for on-grid operation
- Dual output, with one controllable output channel
- Supports lithium battery / lead-acid battery
- Built-in lithium battery self-start function
- Supports parallel operation of multiple units, up to 9 units
- Supports cloud platform and mobile APP for data monitoring and remote upgrade function

DR-PCS

Model	DR-PCS6520N2FL04
Rated Output Power	6500VA/6500W
PV Input	
PV Input Strings	1 String
Max. PV Array Power	9000W
Max. MPPT Efficiency	99.5%
Peak Efficiency of PV Inverter	96%
Max. PV Open-Circuit Voltage	500Vdc
MPPT Operating Voltage Range	60~450Vdc
Start-Up Voltage	80Vdc
Max. Input Current	27A
Short-Circuit Current (ISC)	33A
Max. Charging Current(Battery)	120A
AC Input (Grid)	
Rated Voltage	230Vac
Selectable Voltage Range	170~280 Vac (PC) ,90~280 Vac (Household Appliances)
Rated Input Frequency	50Hz / 60Hz (Adaptive)
Max. AC Input Current	40A
Max. AC Input Voltage	280Vac
Max. Charging Current(Battery)	120A
AC Output (EPS)	
Waveform	Pure Sine Wave
Rated Output Voltage	230Vac ±5%
Output Voltage Range	208~240Vac
Rated Output Frequency	50/60Hz
Rated Output Current	230Vac@28.2A
Surge Power	12kVA
Peak Efficiency of Battery Inverter	94%
Transfer Time	≤10ms
Output Overload Capacity	Battery Mode： 1min@102%~120%Load 10s@＞120%Load bypass mode： 1min@40-50A 10s@50A-55A 200ms@＞55A
Battery	
Battery Type	Lead Acid + Lithium Battery
Battery Voltage Range	42-61Vdc
Charging Curve	Three-Stage
Max. Charging Current	120A
Max. Discharge Current	130A
General Parameters	
Machine Dimensions	395*325*110mm
Net Weight	8.8 Kg
Communication Interface	RS485 / CAN / USB / Wi-Fi(Supports)
Relative Humidity	5%to95% Relative Humidity（Non-condensing）
Operating Temperature	-10℃ to 50℃
Max. Operating Altitude	≤2000m
Cooling Method	Fan cooling
Protection Level	IP54
Certifications	IEC61000/IEC61683/IEC62109