

# Growatt PCS 250

Bidirectional Battery Charger/Inverter



Growatt PCS250 battery inverter is designed for large volume storage system to

- 1.Firm unstable solar power to increase grid power quality
- 2.Increase the usage of solar energy and reduce grid electricity cost
- 3.Serve as back up power supply for local electrical equipments during grid power outage
- 4.Serve as temporary power supply for remote area or certain events

## Features

- 250KW Capacity
- Touch Screen LCD
- Flexible Battery Type(li-ion,lead-acid)
- Comprehensive Protection for Inverter and Battery
- Multiple Working Mode Presetable
- Battery Forecast (discharge time, capacity, etc)
- CAN and RS485 Communication Interface, Modbus Protocol
- Seamless transfer between on and off grid
- Flexible design, multiple inverters parallelable
- Build-in transformer for grid isolation

## GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

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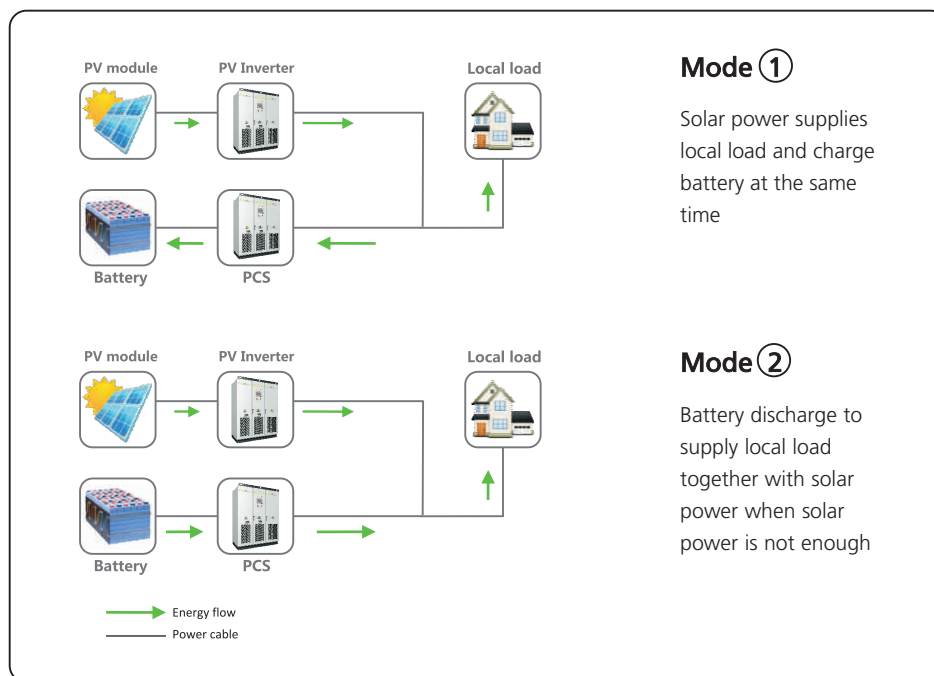
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Datasheet	Growatt PCS250
<b>AC(Grid-connected)</b>	
Rated power	250KVA
Rated voltage	400V
Voltage Range	310V - 450V
Rated frequency	50/60Hz
Frequency range	47~51.5/57~61.5Hz
THDI	<3%
PF	0.9lagging~0.9leading
Output from	3/N/PE
<b>General Information</b>	
Maximum efficiency	97.3%
Environment compatibility	IP20
Noise	<65dB
Environment temperature	-25 °C ... +55 °C
Cooling	Air Forced
Humidity	0 ~95% non-condensing
Altitude	5000m(derated above 3000m)
Dimension (W/D/H)	1600/850/2080 mm
Weight	1465KG
Transformer	Low frequency
Transfer between on/off grid	Manual(default) Automatic(optional)≤20ms

Datasheet	Growatt PCS250
<b>AC(off-grid)</b>	
Rated voltage	400Vac
THDU	≤1%linear
Rated frequency	50/60Hz
Overload capability	100%-10 mins 120%-1 min
<b>DC(battery)</b>	
Max power	275KW
Current regulation	±1%
Voltage regulation	±1%
Voltage ripple	<3%
Current ripple	<2%
Rated voltage	600V
Voltage range	500-820V
Rated current	460A
Max current	550A
Input numbers	1
<b>Communication</b>	
Display	Touch Screen LCD
Communication interface	RS485/CAN

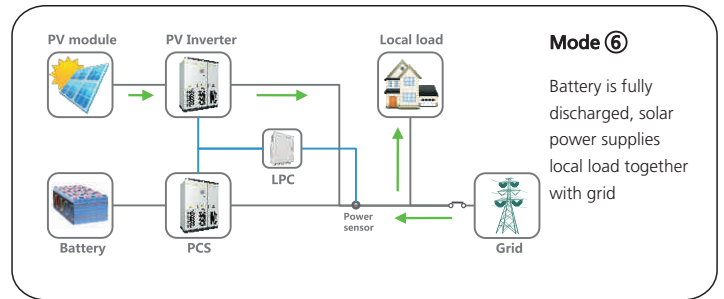
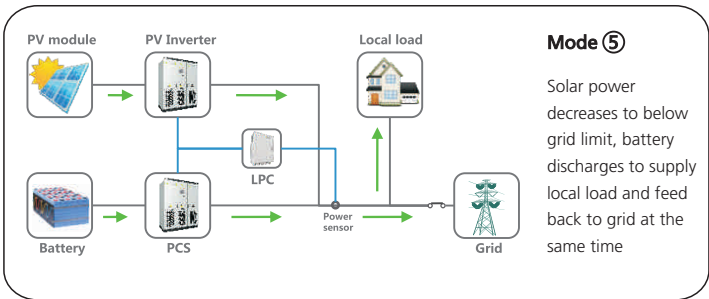
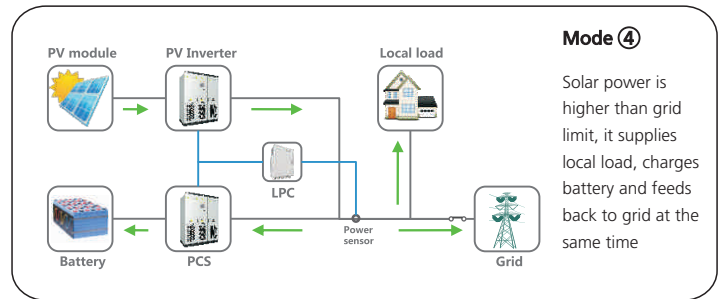
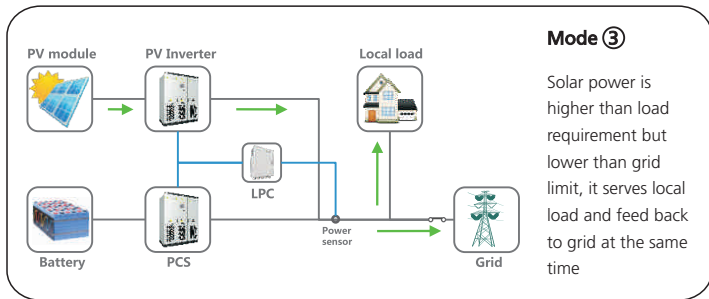
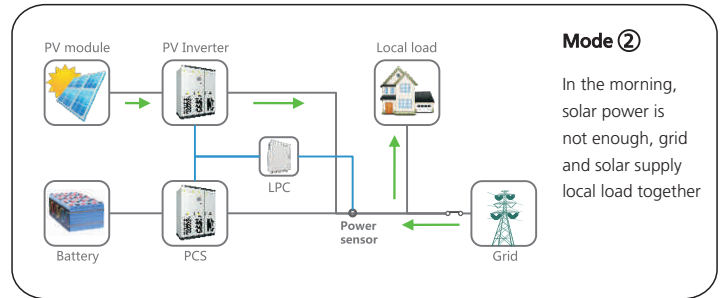
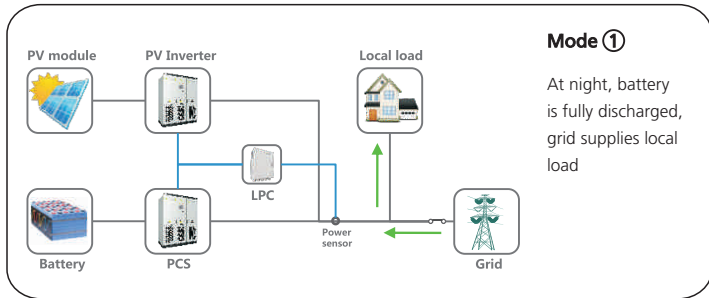
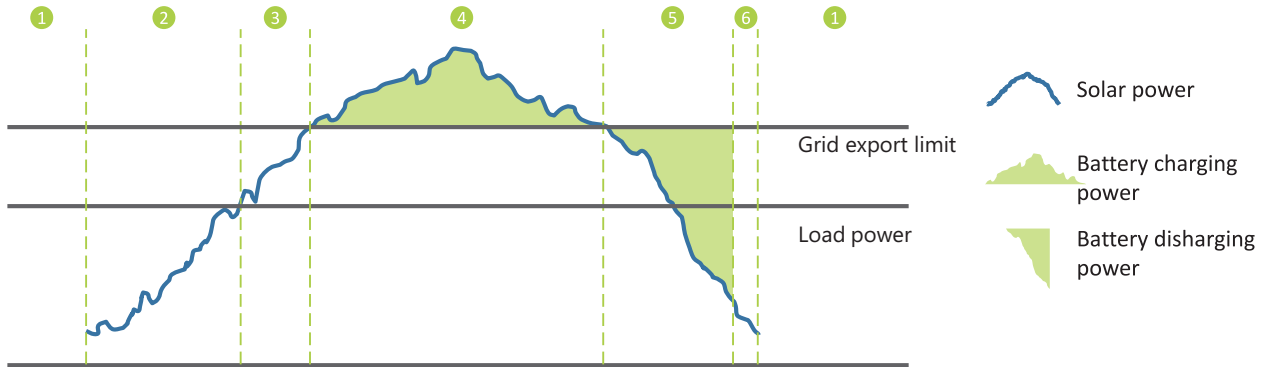
## Typical Application

### Stand Alone System



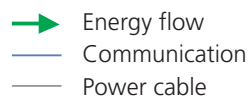
# Typical Application

## Hybrid System/Peak-shaving Application



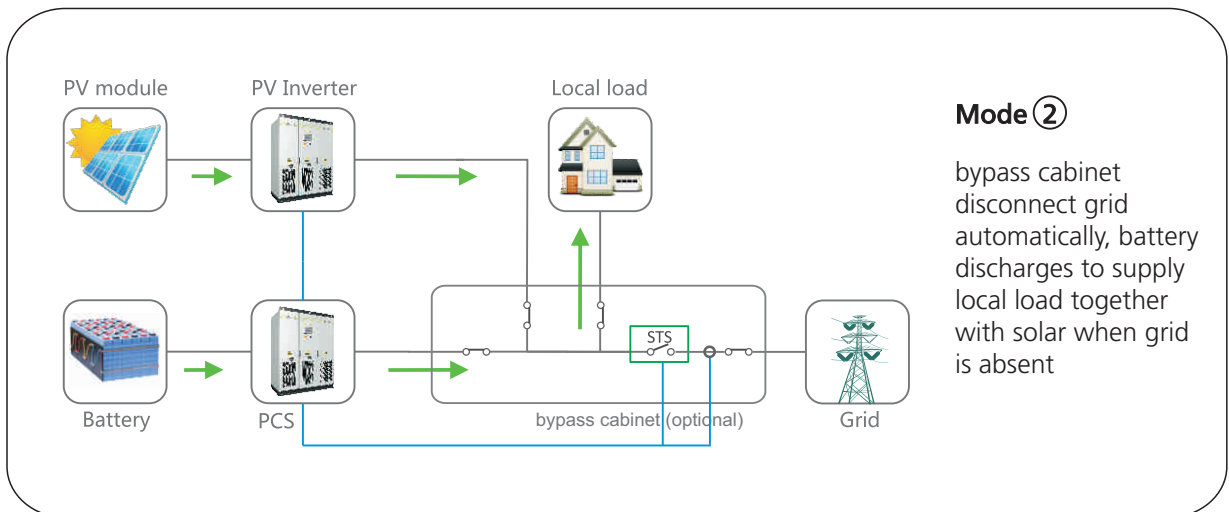
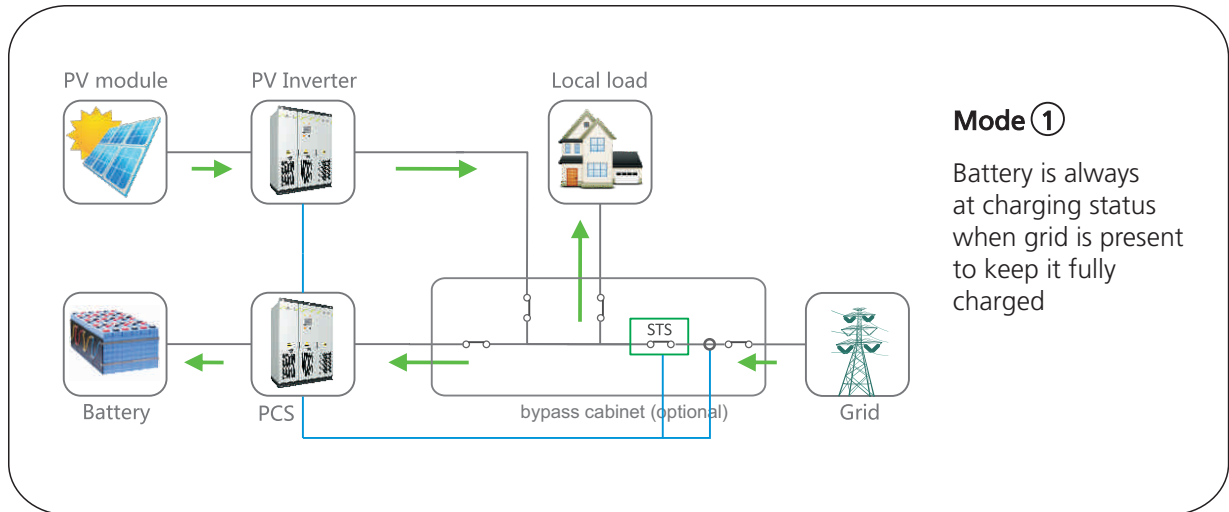
**NOTE:**

1. Output power of inverter and PCS can be controlled by the feedback information from power sensor. value adjustable
2. LPC stands for power control unit



## Typical Application

### Hybrid System/Back-up Application



- Energy flow
- Communication
- Power cable