

Growatt PCS100

Bidirectional Battery Charger/Inverter



Growatt PCS100 battery inverter is designed for large volume storage system to

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

Features:

- ▶ 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

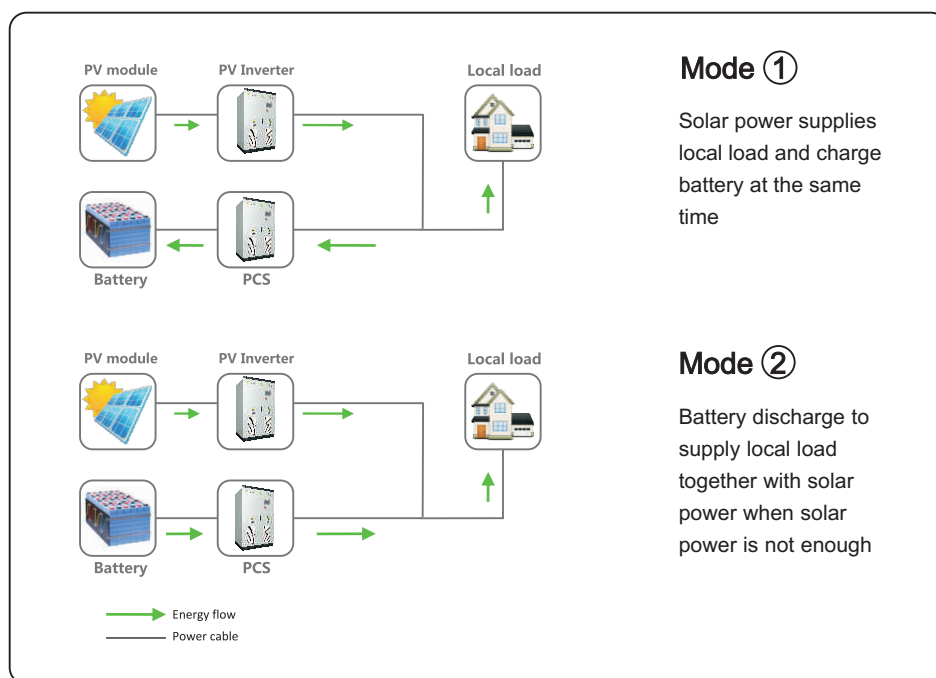
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Datasheet	Growatt PCS100	Datasheet	Growatt PCS100
AC(Grid-connected)		AC(off-grid)	
Rated power	100KVA	Rated voltage	400Vac
Rated voltage	400V	THDU	≤1%linear
Voltage Range	310V - 450V	Rated frequency	50/60Hz
Rated frequency	50/60Hz	Overload capability	110%-10 mins 120%-1 min
Frequency range	47~51.5/57~61.5Hz	DC(battery)	
THDI	<3%	Max power	110KW
PF	0.9lagging~0.9leading	Current regulation	±1%
Output from	3/N/PE	Voltage regulation	±1%
General Information		Voltage ripple	<3%
Maximum efficiency	97.1%	Current ripple	<2%
Environment compatibility	IP20	Rated voltage	600V
Noise	<65dB	Voltage range	500-820V
Environment temperature	-25 °C ... +55 °C	Rated current	180A
Cooling	Air Forced	Max current	220A
Humidity	0 ~95% non-condensing	Input numbers	1
Altitude	5000m(derated above 3000m)	Communication	
Dimension (W/H/D)	1100/1890/850 mm	Display	Touch Screen LCD
Weight	820KG	Communication interface	RS485/CAN
Transformer	Low frequency		
Transfer between on/off grid	Manual(default) Automatic(optional)≤20ms		

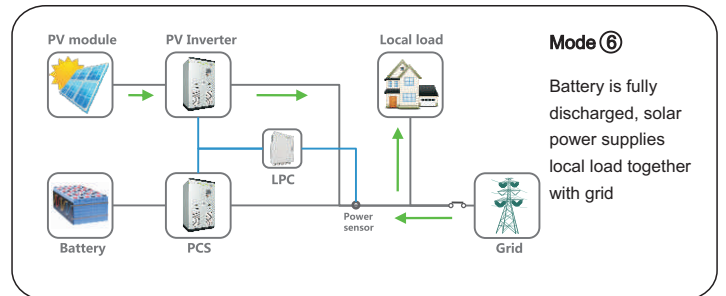
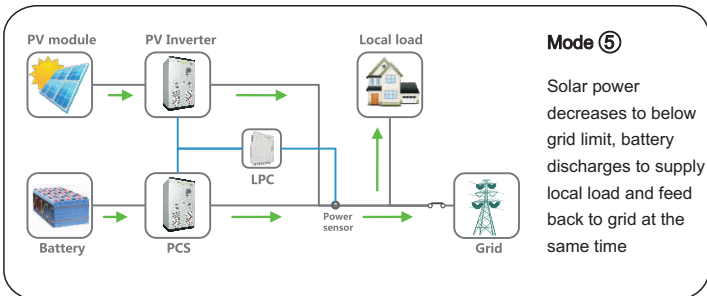
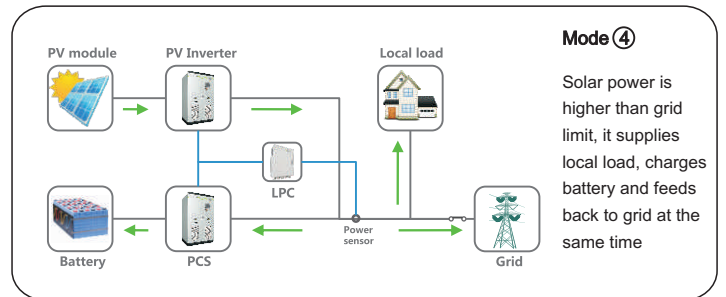
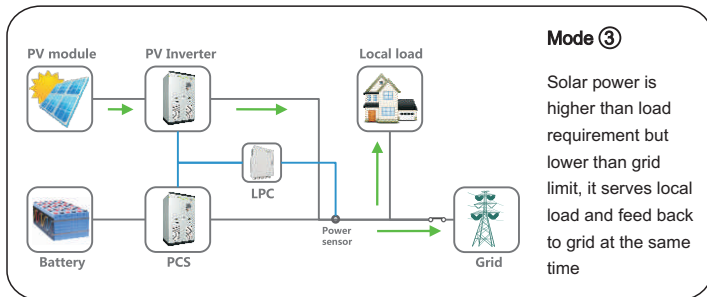
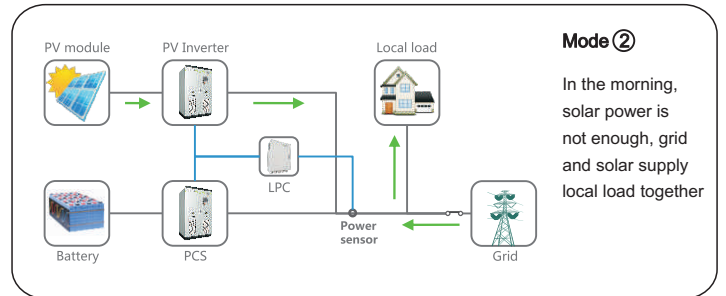
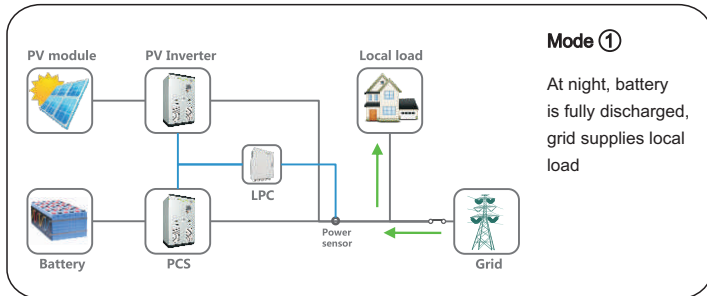
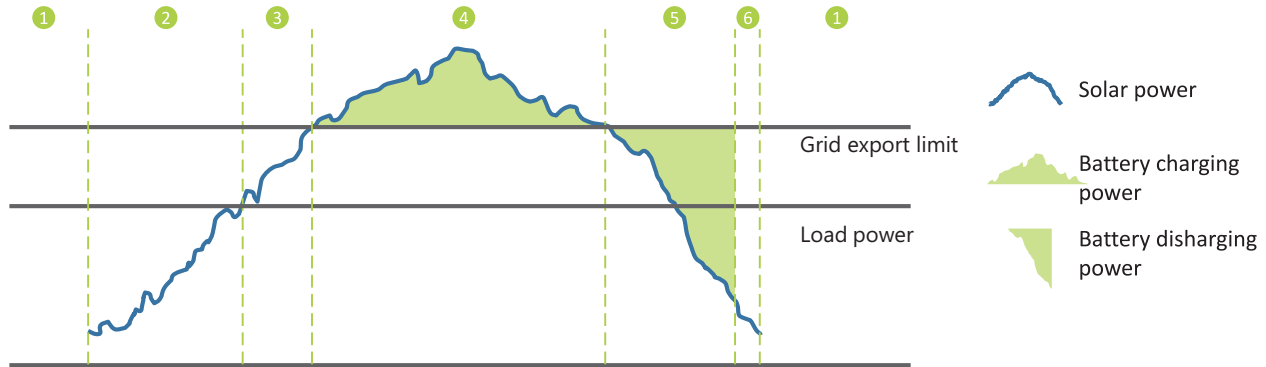
Typical Application

Stand Alone System



Typical Application

Hybrid System/Peak-shaving Application



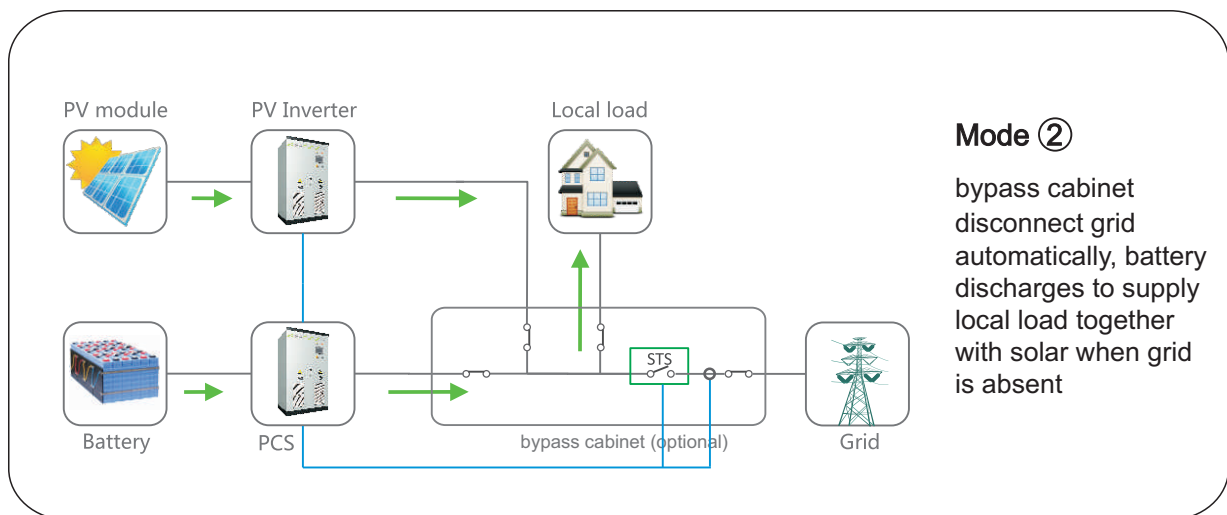
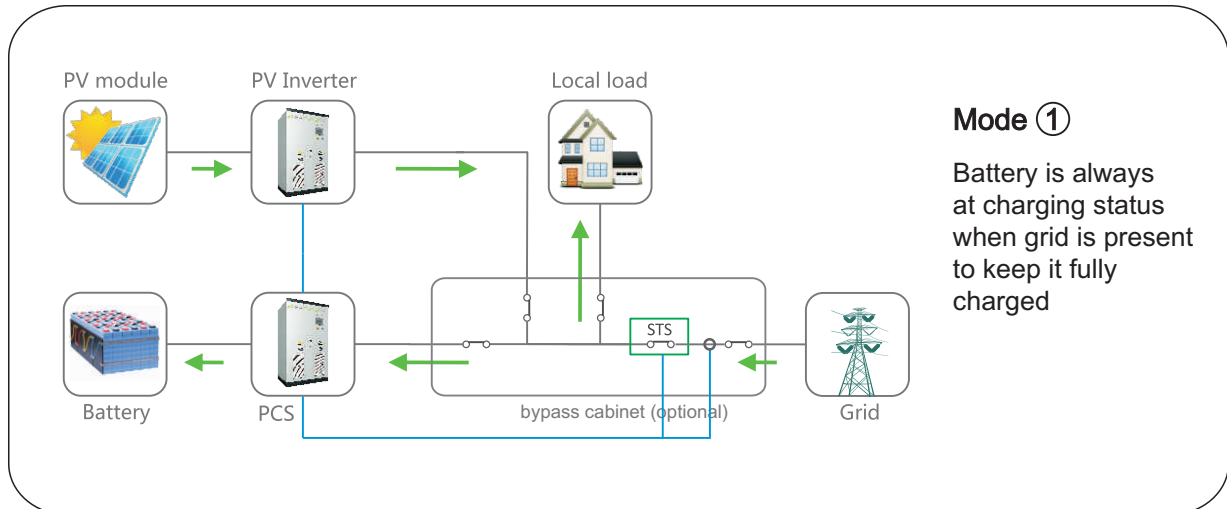
NOTE:

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

→ Energy flow
— Communication
— Power cable

Typical Application

Hybrid System/Back-up Application



→ Energy flow
— Communication
— Power cable