Growatt PCS50

Bidirectional Battery Charger/Inverter





Growatt PCS50 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 Forcast (discharge time, capacity, etc)
- CAN and RS485 Communication Interface, Modbus Protocol
- Seamless transfer between on and off grid
- Flexible design, multiple inverters parallelable

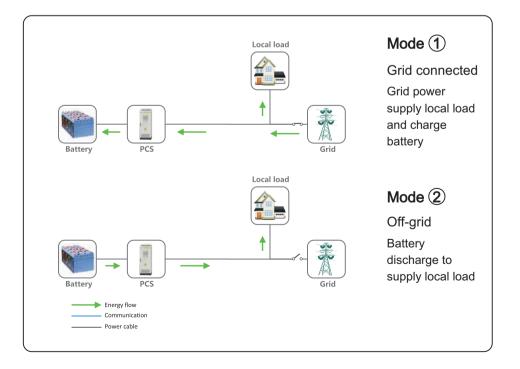
GROWATT NEW ENERGY TECHNOLOGY Co., LTD

A: No.28 Guanghui Road, Longteng Community, Shiyan, Baoan District, Shenzhen, P.R.China. T: + 86 755 2747 1900 F: + 86 755 2749 1460 E: info@ginverter.com

Datasheet	Growatt PCS50	Datasheet	Growatt PCS50
AC(Grid-connected)		AC(off-grid)	
Rated power Rated voltage Voltage Range Rated frequency Frequency range	50KVA 400V 310V - 450V 50/60Hz 47~51.5/57~61.5Hz	Rated voltage THDU Rated frequency Overload capability	400Vac ≤1%linear 50/60Hz 110%-10 mins 120%-1 min
THDI	<3%	DC(battery)	
PF Output from	-0.99~0.99 3 phase 4 wire	Max power Current regulation Voltage regulation	55KW ±1% ±1%
General Information		Voltage ripple	<3%
Maximum efficiency Environment compatibility Noise Environment temperature Cooling	97.5% IP 20 <65dB -25 °C +55 °C Air Forced	Current ripple Rated voltage Voltage range Rated current Max current Input numbers	<2% 600V 500-820V 84A 125A 1
Humidity	0 ~95% non-condensing	Communication	
Altitude Dimension (W/H/D)	5000m(derated above 3000m) mm	Display Communication interface	Touch Screen LCD RS485/CAN

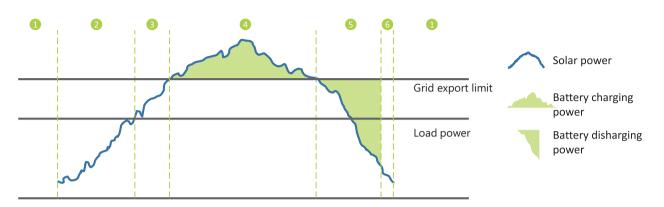
Typical Application

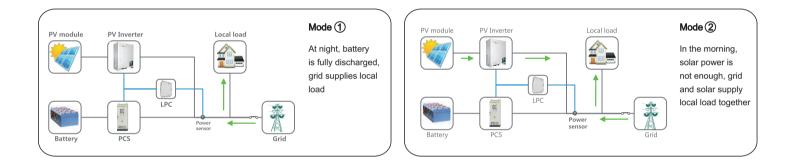
Stand Alone System

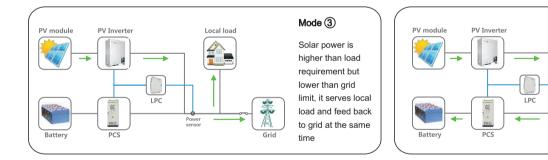


Typical Application

Hybrid System/Peak-shaving Application

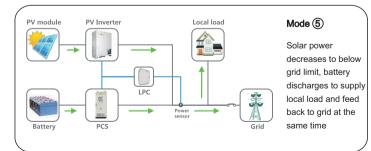


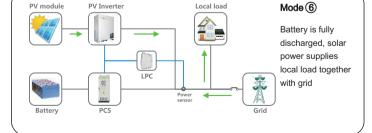






Mode (4)



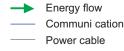


Local load

NOTE:

1. Output power of inverter and PCS can be controled by the feedback information from power sensor. value ajustable

2. LPC stands for power control unit



Hybrid System/Back-up Application

