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 Forecast (discharge time, capacity, etc)
- CAN and RS485 Communication Interface, Modbus Protocol
- Seamless transfer between on and off grid(optional)
- Flexible design, multiple inverters parallelable
- Build-in transformer for grid isolation

GROWATT NEW ENERGY TECHNOLOGY Co., LTD

A: No.28 Guangming 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
PF	0.9lagging~0.9leading	DC(battery)	
Output from	3/N/PE	Max power	55KW
General Information		Current regulation	±1%
Maximum efficiency	95.5%	Voltage regulation	±1%
Environment compatibility	IP20	Voltage ripple	<3%
Noise	<65dB	Current ripple	<2%
Environment temperature	-25 °C +55 °C	Rated voltage	600V
Cooling	Air Forced	Voltage range	500-820V
Humidity	0~95% non-condensing	Rated current	84A
Altitude	5000m(derated above 3000m)	Max current	125A
Dimension (W/D/H)	600/800/1630 mm	Input numbers	1
Weight	450KG		
Transformer	Low frequency	Communication	
Transfer between on/off grid	Manual(default) Automatic(optional)≤20ms	Display Communication interface	Touch Screen LCD RS485/CAN

Typical Application

Stand Alone System



Typical Application

Hybrid System/Peak-shaving Application













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



vww.ginverter.com

Typical Application

Hybrid System/Back-up Application





