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PowerCom



Off-Grid Solar Inverter Product Descriptions

Powercom PV series off-grid inverter is particularly designed for off-grid power system with high efficiency up to 95%. The excellent overload capacity and complete protection are suitable for all sorts of electrical appliances. The inverter can be used in harsh environments e.g. wide temperature range, high altitude, etc. This series can be applied for solar lighting, remote communication base, high way monitoring system, custom system of coastal areas and less developed areas, etc.

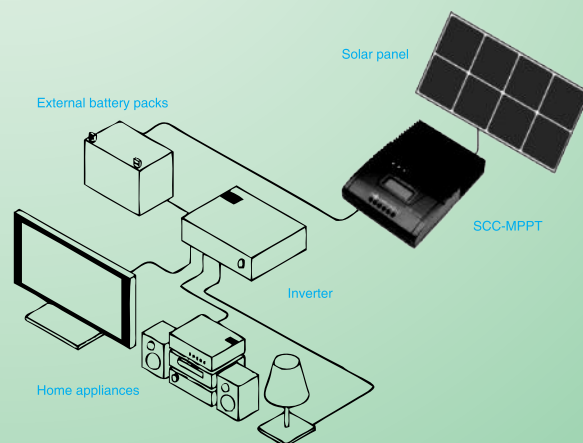
Main Features

- * Max. efficiency up to 95%
- * Low Idle Current >20mA
- * Isolated output transformer, durable load impact
- * Pure sine wave output, suitable for all sorts of electrical appliances
- * Excellent overload capacity
- * Complete protections e.g. Input and output over voltage, over temperature protection, overload protection, short circuit protection, etc.
- * LCD display/ LED status indicator
- * Smart fan speed control and trouble shooting function
- * RS485, dry contact communication to realize remote monitoring



Main Applications

- * Remote Telecom Station
- * ATM Booth
- * Hospital
- * ISP Booth
- * BTS Tower
- * All AC applications



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Technical Specifications

Model	PCM 512V	PCM 1012V/ PCM 1024V	PCM 1524V/ PCM 1548V
Solar Inverter			
Max Rated Power	500W	1000W	1500W
Output voltage	220/230/240Vac±10%		
Output frequency	50/60HZ±1HZ		
Output wave type	pure sine wave		
THDI	<3% (linear load)		
Output voltage regulation	<3% (Load 0~100%)		
Input current crest factor	3		
Over load capacity	100-125% 10min; 125-150% 1min; 150-200% 10s		
Battery			
Battry type	Deep Cycle battery		
Battery rated voltage	12/24VDC (Optional)		
Battery deep discharged volt	10.5/21VDC (ADJ)		
Battery floating charge volt	14.0/28VDC (ADJ)		
System			
Display	LCD/LED		
Display content	Line Frequency, AC voltage, load percentage,		
Inverter protection	AC over volatge,AC short circuit, DC over volatge, DC under voltage, over temperature, etc		
Cooling method	Air cooling		
Communication interface	RS232		
Operating temperature range	-20°C ~ +55°C		
Relative humidity in operation	0 ~ 95% (noncondensing)		
Storage temperature range	-20°C ~ +70°C		
Max. operating altitude	5000m (>3000m derating)		
Noice emission	<55dB (distance in 1m)		
Efficiency	>85%		
Ingressprotection rating	IP20		

I/O Algorithms

Test No.	City Power	Battery Power	Solar Power	Inverter Condition	Final O/P from the inverter
1	OK	OK	OK	AC mode	City power will be bypass and Battery will be charged by solar
2	OK	OK	NIL	AC mode	City power will be bypass and battery will be charged by city power if battery charge goes down
3	NIL	OK	OK	Inv. Mode	Inverter power will be available in output and battery will be charged by solar
4	NIL	OK	NIL	Inv. Mode	Inverter power will be available in output and battery will not be charged
5	NIL	NIL/ Battery Low	NIL	Not work/Battery Low	Not work
6	OK	NIL/Batt. Low	OK	Inv. Not Start	City power will bypass and battery will be charged by solar. When battery voltage goes up, inverter should be getting started automatically. Somebody can quick charge by using manual switch through city power

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Technical Specifications

Model	PCM 2024V/ PCM 2048V	PCM 3048V	PCM 4048V
Solar Inverter			
Max Rated Power	2000W	3000W	4000W
Output voltage	220/230/240Vac±10%		
Output frequency	50/60HZ±1HZ		
Output wave type	pure sine wave		
THDI	<3% (linear load)		
Output voltage regulation	<3% (Load 0~100%)		
Input current crest factor	3		
Over load capacity	100-125% 10min; 125-150% 1min; 150-200% 10s		
Battery			
Battry type	Deep Cycle battery		
Battery rated voltage	48VDC		
Battery deep discharged volt	10.5x4VDC (ADJ)		
Battery floating charge volt	14.5x4VDC (ADJ)		
System			
Display	LCD/LED		
Display content	Line Frequency, AC voltage, load percentage,		
Inverter protection	AC over volatge,AC short circuit, DC over volatge, DC under voltage, over temperature, etc		
Cooling method	Air cooling		
Communication interface	RS232		
Operating temperature range	-20°C ~ +55°C		
Relative humidity in operation	0 ~ 95% (noncondensing)		
Storage temperature range	-20°C ~ +70°C		
Max. operating altitude	5000m (>3000m derating)		
Noice emission	<55dB (distance in 1m)		
Efficiency	>85%		
Ingressprotection rating	IP20		

ELECTRICAL WIRING FOR SOLAR INVERTER						
INVERTER MODEL	PCM 512V/PCM 1012V	PCM 1024V/PCM 1524V	PCM 2024V	PCM 2048V/PCM 3048V	PCM 4048V/PCM 5048V	PCM 7596V/PCM 10096V
PV DC Bus	12V	24V	24V	48V	48V	96V
SOLAR PANEL(WATT) ALR<1.4	1000W/1500W	1500W/2250W	3000W	3000W/4500W	6000W/7500W	11250W/15000W

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Technical Specifications

Model	PCM 5048V	PCM 7596V	PCM 10096V
Solar Inverter			
Max Rated Power	5000W	7500W	10000W
Output voltage	220/230/240Vac±10%		
Output frequency	50/60HZ±1HZ		
Output wave type	pure sine wave		
THDI	<3% (linear load)		
Output voltage regulation	<3% (Load 0~100%)		
Input current crest factor	3		
Over load capacity	100-125% 10min; 125-150% 1min; 150-200% 10s		
Battery			
Battery type	Deep Cycle battery		
Battery rated voltage	48VDC/96VDC		
Battery deep discharged volt	10.5x4VDC/10.5x8VDC (ADJ)		
Battery floating charge volt	14.5x4VDC/14.5x8 (ADJ)		
System			
Display	LCD/LED		
Display content	Line Frequency, AC voltage, load percentage,		
Inverter protection	AC over volatge,AC short circuit, DC over volatge, DC under voltage, over temperature, etc		
Cooling method	Air cooling		
Communication interface	RS232		
Operating temperature range	-20°C ~ +55°C		
Relative humidity in operation	0 ~ 95% (non-condensing)		
Storage temperature range	-20°C ~ +70°C		
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Efficiency	>85%		
Ingressprotection rating	IP20		

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