D.P Electronics.e.K
(Deutsche Power)

SOLAR INVERTER

PV SERIES OFF-GRID-INVERTER

500W~ 10000W

High Efficiency up to 95%.
The Excellent Overload Capacity

OFF-GRID SOLAR INVERTER

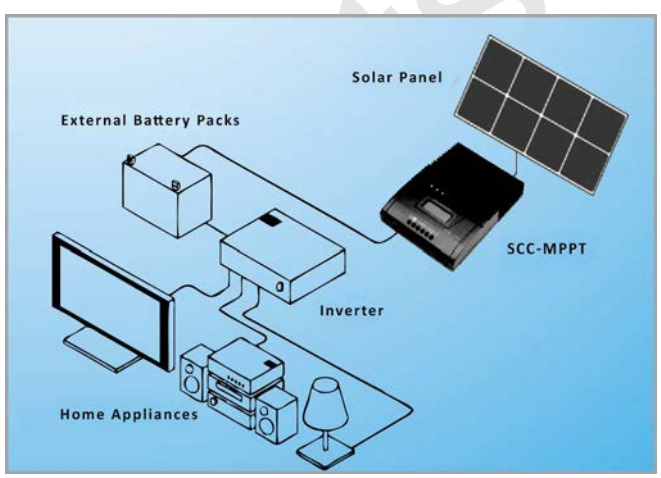
DP Electronics e.K (Deutsche Power Co., Limited)

Product Descriptions
Off-Grid Solar Inverter

Deutsche Power 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.

Applications

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



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.

OFF-GRID SOLAR INVERTER

TECHNICAL SPECIFICATION

MODEL	DP512V	DP1012V / DP1024V	DP1524V / DP1548V	DP2024V / DP2048V	DP3048V	DP4048V	DP5048V	DP7596V	DP10096V
RATED POWER	500W	1000W	1500W	2000W	3000W	4000W	5000W	7500W	10000W
Output voltage	230/230/240/Vac ±10%								
Output frequency	50/60Hz ±1Hz								
Output wave type	Pure Sine-wave								
THDi	<3% (Linear load)								
Output voltage regulation	<3% (0~100%)								
Input current chest factor	3								
Over load capacity	100-125% 10min; 125-150% 1min; 150-200% 10s								
BATTERY									
Type	Deep cycle battery								
Rrated voltage	48VSC / 98VDC								
Deep discharge volt.	10.5 x 4VDC / 10.5x8 VDC (adjustable)								
Floating charge volt.	14.5x4VDC / 14.5x8 (adjustable)								
SYSTEM									
Display	LCD / LED								
Display content	Line frequency, AC voltage, load percentage								
Inverter protection	AC over voltage, AC short circuit, DC over voltage, over temp, etc.								
Cooling Method	Air cooling								
Communication Interface	RS232								
Opt. temp. range	-20C ~ +55C								
Humidity	0~95% (non-condensing)								
Stroge temp.	-20C~+70C								
Max. optrating altitude	5000m (>3000m derating)								
Noice emission	<55dB (distance in 1m)								
Efficiency	>85%								
Ingress protection 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 charge by solar
2	OK	OK	NIL	AC Mode	City power will be bypass and battery will be charge by city power if battery charge goes down.
3	NIL	OK	OK	Inv. Mode	Inverter will be available in output and battery will be charge by solar.
4	NIL	OK	NIL	Inv. Mode	Inverter will be available in output and battery will not be charge by solar.
5	NIL	NIL/Batter.low	NIL	Not Work /Batt.Low	Not work
6	OK	NIL/Batter.low	OK	Inv.Not Start	City power will be bypass and battery will be charge by solar. When battery voltage goes up, inverter should be getting started automatically. Some of one can quick charge by using manual switch through city power.

DP Electronics e.K (Deutsche Power Co., Limited)