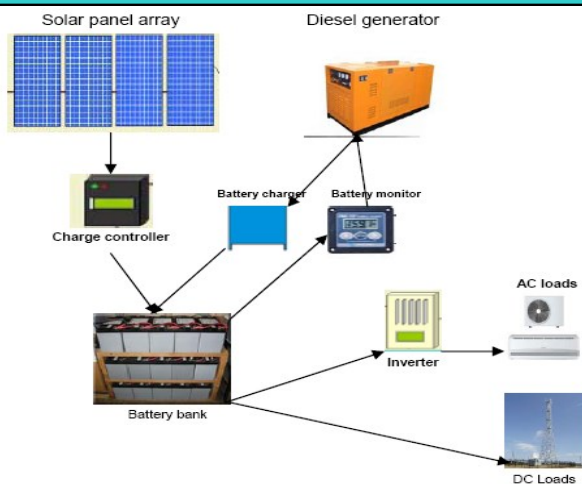


Hybrid Solar Power Systems



About Our Hybrid Power Systems

Fortune CP Ltd designs, manufactures, supplies and installs innovative and highly efficient hybrid power systems. These systems provide a competitive alternative to pure diesel systems that are increasingly under cost pressures due to fuel costs, frequent servicing requirements and problems associated with CO₂ emissions. They can also be deployed in areas where grid power is unreliable.

Depending on the application, the systems can be configured with a mix of solar, wind, diesel generator and other power sources. The systems can also be fitted with remote monitoring and control features. System sizes range from 1.5KWp to 20KWp depending on site power consumption. The systems are designed to provide power 24/7 with solar panel lifetime of 25 years.

BENEFITS

- Power availability 24/7. No loss of power on a site means NO loss of revenue.
- Low operational costs. No diesel is used (except in emergency only), minimal site visits
- Good return on investment
- Low maintenance costs—no moving parts
- Environmentally friendly technology supported by GSM Association

“The GSMA Green Power for Mobile programme was launched in September 2008 to advance the use of renewable energy sources by the mobile industry to power new and existing off-grid base stations in developing countries. Achieving this target will save US\$ billions on diesel expenditure, cut annual carbon emissions - millions of tones...” There are about 640,000 off-grid sites globally, primarily powered by diesel generators.

APPLICATIONS

- Telecom BTS stations
- VSat and internet sites
- Fiber optic repeaters
- Military posts
- Radio repeater sites
- Microwave sites
- Local exchanges
- Rural tele-centres



Regus House, Victory Way, Admirals Park
Dartford, DA2 6QD, Kent, UK

Tel: (44)1322303070 Fax: (44)1322303072

Email: sales@fortunecp.co.uk

Website: www.fortunecp.com

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System Sizes

ITEM	DESCRIPTION	1.7KWp	2.5KWp	3KWp	3.5KWp	4KWp
1	Solar panel array (total) - Fortune CP	1700Wp	2500Wp	3000Wp	3500Wp	4000Wp
2	Solar charge controller (Amps)	40A	60A	60A	80A	80A
3	Battery bank - sealed deep cycle (2	48V	48V	48V	48V	48V
4	DC/AC Inverter - for AC Loads	1KW	1KW	1KW	1.5KW	1.5KW
5	DC disconnect	1	1	1	1	1
6	Battery monitor	1	1	1	1	1
7	Battery charger	1	1	1	1	1
8	Generator automatic switch	1	1	1	1	1
9	Interconnection cables - for above items	Lot	Lot	Lot	Lot	Lot
10	Lighting arrestor	1	1	1	1	1

ITEM	DESCRIPTION	5KWp	6.5KWp	8KWp	10KWp	13KWp
1	Solar panel array (total) - Fortune CP	5000Wp	6500Wp	8000Wp	10000Wp	13000Wp
2	Solar charge controller (Amps)	100A	150A	160A	200A	300A
3	Battery bank - sealed deep cycle (2 Days)	48V 2000AH	48V 2600AH	48V 3200AH	48V 4000AH	48V 5200AH
4	DC/AC Inverter - for AC Loads	1.5KW	1.5KW	2KW	2KW	2KW
5	DC disconnect	1	1	1	1	1
6	Battery monitor	1	1	1	1	1
7	Battery charger	1	1	1	1	1
8	Generator automatic switch	1	1	1	1	1
9	Interconnection cables - for above items	Lot	Lot	Lot	Lot	Lot
10	Lighting arrestor	1	1	1	1	1

OPTIONS

- Add more panels to increase power generation
- Add batteries to increase number of autonomy (back-up) days
- Solar panel mounting frames (roof, ground, pole)
- Battery cabinets
- Energy saving appliances to reduce power consumption (and system size) —lights, air conditioners
- Remote monitoring system—a data logger that transmits information to remote computer