



INNOVATE • INSPIRE • EMPOWER

POWERING A GREENER TOMORROW

SMART SOLAR SOLUTIONS

for Homes, Businesses and Industries.



CLEAN ENERGY

Harness the power of the sun for a sustainable future.



SAVE MORE

Reduce electricity bills and increase your savings.



RELIABLE & DURABLE

High quality systems built for long-lasting performance.



LOWER ENERGY BILLS

Cut costs up to 80%



GOVERNMENT SUBSIDY

Available up to ₹78,000/-*



QUICK RETURN ON INVESTMENT

Recover in 3-5 years



GREEN PLANET BETTER TOMORROW

Reduce your carbon footprint

TRUSTED QUALITY. TRUSTED BRANDS.

We use top quality components from India's leading brands.



COMPLETE SOLAR SOLUTIONS

- ✓ Consultation & System Design
- ✓ Supply of Premium Components
- ✓ Professional Installation
- ✓ Operation & Maintenance Support



LET'S BUILD A SUSTAINABLE FUTURE TOGETHER.



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info.kraftwing@gmail.com



www.kraftwing.com

THE SMART CHOICE FOR A SUSTAINABLE FUTURE

Solar energy is clean, abundant and the future-ready solution for a better planet and a better tomorrow.



OUR IMPACT



50+
MW
INSTALLED



500+
HAPPY
CUSTOMERS



100+
BUSINESSES
POWERED



10,000+
TONS OF CO₂
REDUCED

WHY GO SOLAR?



SAVE ON ELECTRICITY BILLS

Reduce your electricity bills by up to 80%.



FAST RETURN ON INVESTMENT

Recover your investment in just 3–5 years.



GOVERNMENT SUBSIDY

Avail attractive subsidies up to ₹78,000/-* under the PM Surya Ghar Scheme.



LOW MAINTENANCE

High quality systems with 20+ years of long-lasting performance.



INCREASE PROPERTY VALUE

Enhance the value and appeal of your property.



CLEAN & GREEN ENERGY

Reduce carbon footprint and contribute to a healthier planet.

*Terms & conditions apply

HOW IT WORKS



01

Site Assessment
& Consultation



02

System Design
& Proposal



03

Installation
by Experts



04

System Check
& Commissioning



05

Monitoring
& Support



QUALITY. SAFETY. RELIABILITY.

Our promise in every project.

OUR SOLAR SOLUTIONS



RESIDENTIAL SOLUTIONS

Smart solar systems for homes that ensure savings and energy independence.



COMMERCIAL SOLUTIONS

Reduce operating costs and power your business with reliable solar energy.



INDUSTRIAL SOLUTIONS

Scalable solar solutions for industries to drive efficiency and sustainability.



CUSTOM SOLUTIONS

Tailored solar solutions to meet your unique energy needs and site conditions.

WHY CHOOSE KRAFTWING?

- ✓ End-to-end solar solutions
- ✓ High quality & reliable components
- ✓ Expert & certified team
- ✓ On-time delivery
- ✓ After-sales service & support
- ✓ Transparent pricing



Every project we deliver is a step towards
A GREENER AND BRIGHTER TOMORROW.



LET'S POWER A BETTER FUTURE.
TOGETHER.



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THREE SMART SOLAR SOLUTIONS. ONE SUSTAINABLE FUTURE.

Choose the right solar system that fits your energy needs and budget.



Clean Energy



Lower Electricity Bills



Energy Security



Sustainable Future

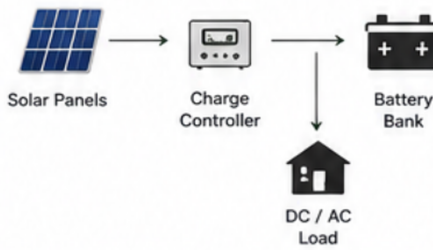
ON-GRID SOLAR SYSTEM



On-grid systems are connected to the electricity grid. You use solar power during the day and export excess power to the grid to earn credits.

- ✓ Ideal for reducing electricity bills
- ✓ Net metering available
- ✓ No battery required

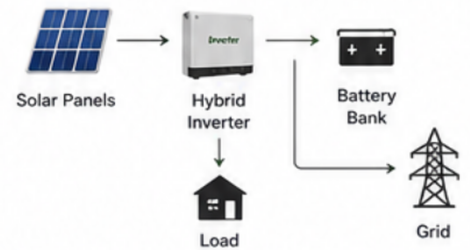
OFF-GRID SOLAR SYSTEM



Off-grid systems are completely independent of the grid. Energy is stored in batteries and used whenever needed.

- ✓ 100% energy independence
- ✓ Works in remote areas
- ✓ Battery backup for night & cloudy days

HYBRID SOLAR SYSTEM



Hybrid systems combine solar, battery and grid power. You get backup, savings and flexibility – all in one.

- ✓ Uninterrupted power supply
- ✓ Stores energy & uses when needed
- ✓ Best balance of savings & reliability

SYSTEM COMPARISON

FEATURES	ON-GRID SYSTEM	OFF-GRID SYSTEM	HYBRID SYSTEM
Grid Connection	Required	Not Required	Required
Battery	Not Required	Required	Required
Electricity Bill	Reduced (Net Metering)	No Electricity Bill	Greatly Reduced
Power Backup	No Backup	Full Backup	Full Backup
Installation Cost	Low	High	Medium
Maintenance	Low	Medium	Low
Best For	Urban Areas	Remote Areas	Homes, Businesses & Areas with Frequent Outages
Typical Applications	Homes, Shops, Commercial Buildings	Farms, Remote Homes, Cottages, Islands	Homes, Offices, Industries, Institutions
System Life	25+ Years	20+ Years (Battery 5-7 Years)	25+ Years (Battery 5-7 Years)

WHY GO SOLAR?



Save Up to 80% on Bills



Increase Property Value



Low Maintenance & Long Life



Reduce Carbon Footprint



Government Subsidy Available*



Contribute to a Greener Planet

*Terms & conditions apply



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GENERATION & CONSUMPTION CALCULATION

Know your energy needs. Size your solar system right.



Accurate Calculation



Right System Size



Maximum Savings



Sustainable Future

HOW WE CALCULATE

- 01 **DAILY ENERGY CONSUMPTION (UNITS)**
Add total wattage of all appliances × usage hours per day, then divide by 1000.
- 02 **EXPECTED SOLAR GENERATION**
Daily Generation (Units) = System Size (kWp) × Peak Sun Hours
- 03 **SYSTEM SIZE (kWp)**
System Size (kWp) = Daily Consumption (Units) ÷ Peak Sun Hours
- 04 **ADJUST FOR LOSSES**
Add 15% for system losses (inverter, wiring, temperature, dust, etc.)
- 05 **RECOMMENDED SYSTEM SIZE**
Final System Size (kWp) = Calculated Size × 1.15

EXAMPLE CALCULATION

For a Home Consuming ~ 12 Units/Day



Daily Consumption
12 Units

Required System Size (Before Losses)
= 12 ÷ 4.5 = 2.67 kWp



Peak Sun Hours
4.5 Hours

Add 15% Losses
= 2.67 × 1.15 = 3.07 kWp

Recommended System Size: ~3 kWp

AVERAGE PEAK SUN HOURS IN INDIA

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
North India	3.5	4.5	5.5	6.0	6.5	5.5	4.5	4.5	5.0	4.5	3.5	3.0	4.8
West India	4.0	5.0	6.0	6.5	6.5	5.5	5.0	5.0	5.5	5.0	4.0	3.5	5.2
East India	3.5	4.0	4.5	5.0	5.5	4.5	4.0	4.0	4.5	4.0	3.5	3.0	4.2
South India	4.0	5.0	5.5	6.0	6.0	5.5	5.0	5.0	5.0	4.5	4.0	3.5	4.9

*Peak Sun Hours may vary by location, season and weather conditions.

COMMON APPLIANCES POWER CONSUMPTION

Appliance	Power (W)	Qty.	Usage (Hrs/Day)	Daily Units (kWh)
LED Bulb	10	8	5	0.40
Fan	70	4	10	2.80
TV (LED)	100	1	4	0.40
Refrigerator	150	1	8	1.20
Washing Machine	500	1	1	0.50
Geyser	2000	1	1	2.00
Water Pump (1 HP)	750	1	1	0.75
Laptop	60	1	4	0.24
Wi-Fi Router	10	1	24	0.24
TOTAL DAILY CONSUMPTION				8.53 Units

*Add all daily units of your appliances to get total consumption.

RECOMMENDED SYSTEM SIZE GUIDE

Daily Consumption (Units)	Recommended System Size (kWp)	Suitable For
Up to 5 Units	1 – 1.5 kWp	1 BHK / Small Home
5 – 10 Units	2 – 3 kWp	2 BHK / Medium Home
10 – 15 Units	3 – 4 kWp	3 BHK / Large Home
15 – 25 Units	5 – 7 kWp	Large Home / Villa
25 – 40 Units	10 kWp	Small Office / Shop
40+ Units	10 kWp & Above	Commercial Use



TIPS FOR BETTER PERFORMANCE

- Keep panels clean for maximum output
- Ensure proper ventilation and no shading
- Use energy-efficient appliances
- Monitor your system regularly



LET'S CALCULATE RIGHT.
SAVE MORE EVERY DAY.



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RESIDENTIAL SOLAR SOLUTIONS

RIGHT CAPACITY.
MAXIMUM SAVINGS.

Reliable. Efficient. Affordable.
Power your home with clean solar energy.



- Uninterrupted Power Supply
- Lower Electricity Bills
- Clean & Green Energy

1 KVA SOLAR POWER PLANT
For Residential Use



IDEAL FOR
Small homes with basic power requirement.

- SUPPORTS**
- LED Lights
 - Fans
 - TV
 - Wi-Fi Router
 - Mobile Charging
 - Basic Appliances

TECHNICAL SPECIFICATIONS	
System Capacity	1 KVA
Solar Panel Capacity	1.2 kWp
Solar Panels	3 x 400W Mono PERC
Inverter	1 KVA / 24V Hybrid Inverter
Battery	24V / 100Ah Tubular Battery
Battery Backup	4 – 5 Hours (Depending on Load)
Average Daily Generation	4 – 5 Units*
Area Required	80 – 100 Sq. Ft.

SYSTEM PERFORMANCE

- Generates 4 – 5 Units/Day*
- Reduces Electricity Bill by up to 80%
- Payback Period 3 – 4 Years*

3 KVA SOLAR POWER PLANT
For Residential Use



IDEAL FOR
Medium to large homes with higher power needs.

- SUPPORTS**
- LED Lights
 - Fans
 - TV
 - Refrigerator
 - Washing Machine
 - Other Appliances

TECHNICAL SPECIFICATIONS	
System Capacity	3 KVA
Solar Panel Capacity	3.6 kWp
Solar Panels	9 x 400W Mono PERC
Inverter	3 KVA / 24V Hybrid Inverter
Battery	24V / 200Ah Tubular Battery
Battery Backup	8 – 10 Hours (Depending on Load)
Average Daily Generation	12 – 15 Units*
Area Required	250 – 300 Sq. Ft.

SYSTEM PERFORMANCE

- Generates 12 – 15 Units/Day*
- Reduces Electricity Bill by up to 80%
- Payback Period 3 – 4 Years*

ESTIMATED MONTHLY SAVINGS

SYSTEM	AVG. MONTHLY GENERATION*	AVG. SAVINGS/MONTH*	SAVINGS IN 25 YEARS*
1 KVA	120 – 150 Units	₹800 – ₹1,000	₹2.5 – ₹3.0 Lakhs
3 KVA	360 – 450 Units	₹2,500 – ₹3,500	₹7.5 – ₹10.0 Lakhs

INCLUSIONS

- High Efficiency Solar Modules
- Smart Hybrid Inverter
- High Performance Tubular Battery
- DC / AC Cables & Protections
- Installation & Commissioning

*Actual generation and savings may vary based on location, system orientation, shading and electricity tariff.

QUALITY COMPONENTS. EXPERT INSTALLATION. LONG TERM PERFORMANCE.

RESIDENTIAL SOLAR SOLUTIONS

MORE POWER. MORE SAVINGS.

High capacity solar systems for modern homes. Reliable. Efficient. Future-Ready.



Uninterrupted Power Supply



Lower Electricity Bills



Clean & Green Energy

5 KVA

SOLAR POWER PLANT For Residential Use



IDEAL FOR

Large homes with high power requirements.

SUPPORTS

- LED Lights
- Fans
- TV
- Refrigerator
- Washing Machine
- Air Conditioner (1-1.5 Ton)
- Water Pump
- Other Appliances

10 KVA

SOLAR POWER PLANT For Residential Use



IDEAL FOR

Villas and very large homes with heavy load.

SUPPORTS

- LED Lights
- Fans
- TV
- Refrigerator (2 Nos.)
- Washing Machine
- Air Conditioner (2-3 Ton)
- Water Pump
- Other Heavy Appliances

TECHNICAL SPECIFICATIONS

System Capacity	5 KVA
Solar Panel Capacity	6.0 kWp
Solar Panels	12 x 500W Mono PERC
Inverter	5 KVA / 48V Hybrid Inverter
Battery	48V / 200Ah Tubular Battery
Battery Backup	10 - 12 Hours (Depending on Load)
Average Daily Generation	20 - 25 Units*
Area Required	400 - 500 Sq. Ft.

SYSTEM PERFORMANCE



Generates

20 - 25 Units/Day*



Reduces Electricity Bill
by up to 80%



Payback Period
3 - 4 Years*

TECHNICAL SPECIFICATIONS

System Capacity	10 KVA
Solar Panel Capacity	12.0 kWp
Solar Panels	24 x 500W Mono PERC
Inverter	10 KVA / 48V Hybrid Inverter
Battery	48V / 300Ah Tubular Battery
Battery Backup	16 - 18 Hours (Depending on Load)
Average Daily Generation	40 - 50 Units*
Area Required	800 - 1000 Sq. Ft.

SYSTEM PERFORMANCE



Generates

40 - 50 Units/Day*



Reduces Electricity Bill
by up to 80%



Payback Period
3 - 4 Years*

ESTIMATED MONTHLY SAVINGS

SYSTEM	AVG. MONTHLY GENERATION*	AVG. SAVINGS/MONTH*	SAVINGS IN 25 YEARS*
5 KVA	600 - 650 Units	₹4,000 - ₹5,000	₹12 - ₹15 Lakhs
10 KVA	1200 - 1400 Units	₹8,000 - ₹10,000	₹24 - ₹30 Lakhs

*Actual generation and savings may vary based on location, system orientation, shading and electricity tariff.

INCLUSIONS



High Efficiency Solar Modules



Smart Hybrid Inverter



High Performance Tubular Battery



DC / AC Cables & Protections



Installation & Commissioning



QUALITY COMPONENTS. EXPERT INSTALLATION.
LONG TERM PERFORMANCE.



LET'S POWER YOUR HOME
WITH CLEAN ENERGY.



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COMMERCIAL SOLAR SOLUTION

25 KVA SOLAR POWER PLANT POWERING YOUR BUSINESS. REDUCING YOUR COSTS.

High performance solar system designed for offices, shops, institutions, warehouses and other commercial establishments.



Lower Operating Costs



Reliable & Consistent Power



High ROI & Long Term Savings



Green Energy for Sustainable Future



SYSTEM HIGHLIGHTS

- High efficiency solar modules
- Advanced hybrid inverter
- Smart energy management
- Grid support with net metering
- Safe, reliable & low maintenance

TECHNICAL SPECIFICATIONS – 25 KVA SOLAR PLANT

System Capacity	25 KVA
Solar Panel Capacity	30.0 kWp
Solar Panels	60 x 500W Mono PERC
Inverter	25 KVA / 3 Phase Hybrid Inverter
Battery	48V / 600Ah Tubular Battery
Battery Backup	4 – 6 Hours (Depending on Load)
Average Daily Generation	100 – 120 Units*
Area Required	2000 – 2300 Sq. Ft.
Mounting Structure	GI / Aluminum Structure
Protection	DC / AC DB, SPD, MC4 Connectors, Earthing

ESTIMATED MONTHLY SAVINGS



Generation
100 – 120 Units/Day*



Savings/ Month*
₹12,000 – ₹15,000



Savings in 25 Years*
₹36 – ₹45 Lakhs

IDEAL FOR



Offices



Shops & Showrooms



Schools & Colleges



Warehouses



Hospitals



Industries

QUALITY COMPONENTS. EXPERT INSTALLATION. LONG TERM PERFORMANCE.

AGRICULTURE SOLAR PUMP SYSTEM POWER YOUR FIELDS. SAVE FOR THE FUTURE.

Efficient solar water pumping solution for irrigation, livestock and other agricultural needs.

SOLAR PUMP SYSTEM OPTIONS

PUMP CAPACITY	MOTOR POWER	DAILY WATER OUTPUT*	SOLAR PANEL CAPACITY	SUITABLE FOR
1 HP	0.75 kW	30,000 – 40,000 Liters	1.5 – 2.0 kWp	Small Farms, Kitchen Gardens
2 HP	1.5 kW	60,000 – 80,000 Liters	2.5 – 3.0 kWp	Medium Farms
3 HP	2.2 kW	90,000 – 1,20,000 Liters	3.5 – 4.0 kWp	Large Farms
5 HP	3.7 kW	1,50,000 – 2,00,000 Liters	5.5 – 6.0 kWp	Large Farms, Commercial Use
7.5 HP	5.5 kW	2,50,000 – 3,00,000 Liters	7.5 – 8.0 kWp	High Water Demand Areas
10 HP	7.5 kW	3,50,000 – 4,00,000 Liters	10.0 – 11.0 kWp	Commercial Agriculture

*Output may vary depending on location, sunlight, and pump type.



Free Sunlight
Abundant Water



Reduce Diesel Cost



Low Maintenance



Eco Friendly
& Reliable

SYSTEM COMPONENTS



Solar Modules



Solar Pump Controller



DC / AC Solar Pump



Mounting Structure



Water Outlet



Get rid of electricity & diesel dependency.
Reliable water supply when you need it the most.



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SOLAR WATER PLANT FOR DRINKING WATER

PURE WATER. SUSTAINABLE FUTURE.

Reliable, energy-efficient and eco-friendly solution for safe drinking water.

- Clean & Safe Drinking Water
- Zero Electricity Cost
- Low Maintenance & Reliable
- Sustainable Solution



- Pure & Safe Drinking Water
- No Electricity Required
- Low Operating Cost
- Eco Friendly & Sustainable

SYSTEM OVERVIEW

Solar Water Plant harnesses solar energy to purify raw water and deliver safe, potable drinking water using advanced RO / UV / UF technology.



TECHNICAL SPECIFICATIONS – SOLAR WATER PLANT

Plant Capacity	1000 LPH	2000 LPH	5000 LPH	10000 LPH
Daily Output (Approx.)	16,000 Ltrs	32,000 Ltrs	80,000 Ltrs	1,60,000 Ltrs
Solar Power Required	3 – 4 kWp	5 – 7 kWp	12 – 15 kWp	20 – 25 kWp
Operation	Fully Automatic			
Water Source	Borewell / Surface Water / Municipal Supply			
Treatment Process	Multi Stage Filtration + RO + UV + TDS Control			
Storage Tank	1000 Ltrs	2000 Ltrs	5000 Ltrs	10,000 Ltrs
Structure	GI / MS Powder Coated			
Application	Schools, Hospitals, Communities, Industries, Villages			

IDEAL FOR

- Villages & Rural Areas
- Schools & Colleges
- Hospitals & Health Centers
- Industrial Canteens
- Hotels & Resorts
- Communities & Townships

KEY BENEFITS

- ✓ Provides safe & pure drinking water
- ✓ Reduces dependency on grid power
- ✓ Low operating & maintenance cost
- ✓ Environment friendly solution



SOLAR STREET LIGHTS LIGHT UP THE WAY.

HIGH PERFORMANCE. LOW COST.

All-in-one solar LED street light solution for safe, bright and energy-efficient streets and public spaces.

- Solar Powered
- Easy Installation
- Weather Resistant
- Zero Electricity Bill



TWO VARIANTS



HIGH MASS
Heavy duty body, ideal for highway, main roads & large open areas.



LOW MASS
Light weight, compact design, perfect for streets, colony roads & residential areas.

TECHNICAL SPECIFICATIONS – SOLAR STREET LIGHT

Model	Power	Solar Panel	Battery	LED Lumen	Height	Backup	Suitable For
HIGH MASS	60W	120Wp	LiFePO4 60Ah / 12.8V	8,000	7 – 9 Mtr	2 – 3 Nights	Highways, Main Roads, Industrial Areas
	90W	160Wp	LiFePO4 80Ah / 12.8V	12,000	9 – 10 Mtr	2 – 3 Nights	
	120W	200Wp	LiFePO4 100Ah / 12.8V	16,000	10 – 12 Mtr	2 – 3 Nights	
LOW MASS	20W	50Wp	LiFePO4 20Ah / 12.8V	2,500	4 – 5 Mtr	1 – 2 Nights	Residential Streets, Colony Roads, Parks
	30W	70Wp	LiFePO4 30Ah / 12.8V	3,500	5 – 6 Mtr	1 – 2 Nights	
	40W	100Wp	LiFePO4 40Ah / 12.8V	5,000	6 – 7 Mtr	1 – 2 Nights	

* Backup may vary depending on location, sunlight and usage pattern.

KEY FEATURES

- High Efficiency Solar Panel
- High Brightness LED Chip
- Long Life LiFePO4 Battery
- Smart Controller with Overcharge Protection
- IP65 Rated Weather Proof

APPLICATIONS

- Highways
- Street & Roads
- Parks
- Residential Areas
- Industries
- Institutions

LET'S BUILD A SUSTAINABLE FUTURE TOGETHER.

From homes to industries, we deliver reliable, efficient and future-ready solar solutions that power progress.



Expert Team



Quality Assurance



Reliable Support



Customer Satisfaction

ABOUT KRAFTWING



Kraftwing is committed to delivering high-performance solar solutions for a cleaner, greener and energy-independent tomorrow. We combine advanced technology, top-quality components and expert installation to ensure maximum savings and long-term reliability.



Customized Solutions



Premium Quality Components



End-to-End Installation



After Sales Service & Support

OUR WORK PROCESS



1. Consultation
Understanding your energy needs



2. Site Assessment
Survey & design planning



3. System Design
Customized solution for maximum output



4. Installation
Professional & safe installation



5. Support
Ongoing support & maintenance

WHY CHOOSE US?



High Efficiency Solar Systems



Maximum Energy Savings



Trusted Quality & Reliability



Eco-Friendly & Sustainable



REQUEST A QUOTE

Tell us about your requirement and our team will get back to you with the best solution.



Full Name



Phone Number



Email Address



Location / City



Type of Requirement



Estimated Monthly Consumption (Units)



Preferred System Capacity (kWp / KVA)



Additional Message / Requirements



SUBMIT REQUEST



Your information is safe with us. We respect your privacy.

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Kolkata, West Bengal, India

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- ✓ Commercial & Industrial Solar Solutions
- ✓ Solar Water Pump Systems
- ✓ Solar Street Lights
- ✓ Solar Water Plants
- ✓ On-grid, Off-grid & Hybrid Systems

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Thank you for considering Kraftwing as your solar partner.



25+ Years System Life



Premium Components



Upto 10 Years Warranty*



High Savings Assured

GO SOLAR. SAVE MORE. LIVE BETTER.