



Powering Tomorrow's Energy Today

ARTOMUS SOLARTECH
Building Tomorrow's Energy Today

Innovative Solar Energy Solutions

A Sister Concern of ARTOMUS Ltd

DO IT RIGHT, NOT AT ALL

Safety First

Discover Solar Solutions for Bangladesh

Off-Grid Systems: Empowering rural communities with independent, reliable energy where grid access is limited.

Hybrid Systems: Combining solar with traditional power sources to ensure uninterrupted supply for homes and businesses.

On-Grid Systems: Integrating seamlessly with the national grid to reduce costs and support sustainable urban energy.



About Artoumus Solartech

“**ARTOMUS SolarTech** is a trusted SME delivering advanced solar technology solutions across North Bengal, Bangladesh.”

Committed to Powering a Sustainable Future
Expert Solar Solutions: Tailored to meet the unique energy needs of Bangladesh.

Nationwide Mission: Delivering reliable, sustainable energy across homes, businesses, and communities.

Trusted Partner: Supporting both residential and commercial projects with proven expertise.

Local Expertise: Combining deep knowledge of the local environment with innovation, safety, and quality.

Best Equipment: Ensuring every installation uses top-tier panels, inverters, and materials.

No Compromise: Upholding the highest standards in product quality and customer service.

24/7 Support: Always available to assist, ensuring uninterrupted energy and peace of mind.



Building Tomorrow's Energy Today

Solar Energy in Bangladesh

Market Context

Bangladesh faces rapid demand for sustainable energy with rural electrification challenges.

Energy Challenges in Bangladesh

Growing Need: Demand for reliable and affordable electricity is rising as industries expand and households modernize.

Rural Access: Many rural communities still face inconsistent or no grid connectivity, making decentralized solar systems a lifeline.

Urban Demand: City dwellers are increasingly seeking cost-effective alternatives to high utility bills and unstable grid supply.

ARTOMUS SOLARTECH

Your trusted solar partner



Energy Independence Redefined

Complete freedom from grid dependency for reliable power.

REMOTE AREAS	perfect for rural zones with no grid access
UNINTERRUPTED	reliable electricity during power outages
BATTERY STORAGE	stores excess power for continuous use
INDEPENDENT	operates without external grid connection
ECO-FRIENDLY	sustainable energy reducing carbon footprint

Components:

- ▶ **Solar Panels:** capture sunlight & convert to electricity
- ▶ **Charge Controller:** regulates flow, prevents overcharge
- ▶ **Batteries:** store excess energy for night/cloudy days
- ▶ **Inverter:** converts DC to AC for appliances

Advantages:

- ▶ Complete energy independence, no external dependency.
- ▶ Uninterrupted power supply during outages
- ▶ Long-term cost savings, no electricity bills
- ▶ Eco-friendly, sustainable energy source



Off Grid Solar System

Important Considerations

Understanding the challenges helps you make an informed decision.

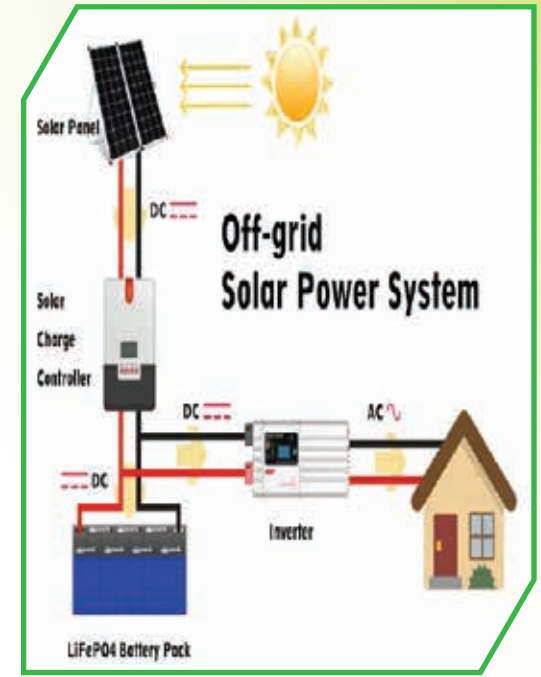
Higher initial investment

(panels, batteries, controllers, inverters)

Battery maintenance and replacement every 5–10 years

Limited energy storage during extended cloudy periods

Requires regular upkeep for optimal performance



Off Grid Solar System

The Smart Energy Solution

Combining solar power with intelligent backup storage.

SMART INTEGRATION	combines solar with battery backup & Grid
OUTAGE PROTECTION	perfect for frequent power outages
UPS-LIKE BACKUP	functions like grid-tie with backup
COST SAVINGS	ideal for high electricity costs
REDUCED DEPENDENCE	minimizes grid reliance, lowers bills

Components:

- ▶ **Solar Panels:** Capture sunlight
- ▶ **Hybrid Inverter:** Manages power flow
- ▶ **Battery Storage:** Stores excess energy
- ▶ **Grid Connection:** Draw or export power

Advantages:

- ▶ Backup power during outages & peak hours
- ▶ Efficient energy management prioritizing solar
- ▶ Cost savings using stored solar energy
- ▶ Minimizes waste, greener footprint



Hybrid Solar System

Hybrid Solar System

■ Important Considerations

Key factors to evaluate before choosing a hybrid solar system.

- ▶ Higher upfront cost due to advanced components
- ▶ Batteries require replacement every 5–10 years
- ▶ Space needed for installation of batteries and equipment
- ▶ Maintenance complexity higher than simpler systems

Single Phase Hybrid Solar Inverter

- ▶ Solis 8kW single-phase hybrid solar inverter
- ▶ Combines grid, solar & battery power efficiently
- ▶ Supports energy storage & real-time monitoring
- ▶ Ideal for residential & small commercial solar systems
- ▶ 5 years warranty (excluding burns & physical damage)



A Smart & Cost Effective Solution

The ideal choice for urban and commercial areas with reliable grid access.

DIRECT CONSUMPTION	Solar power used immediately during day
URBAN READY	Best for areas with reliable grid access
NET METERING	Excess energy sent to grid for credits
COST SAVINGS	Reduce electricity bills significantly
SPACE EFFICIENT	No batteries needed, simpler installation

Components:

- ▶ **Solar Panels:** convert sunlight to electricity
- ▶ **Grid-Tie Inverter:** synchronizes with grid AC
- ▶ **Net Metering:** tracks energy credits earned

Advantages:

- ▶ Lower upfront and maintenance costs
- ▶ Significant electricity bill reduction
- ▶ Scalable and easy to expand
- ▶ Reduces carbon emissions, eco-friendly

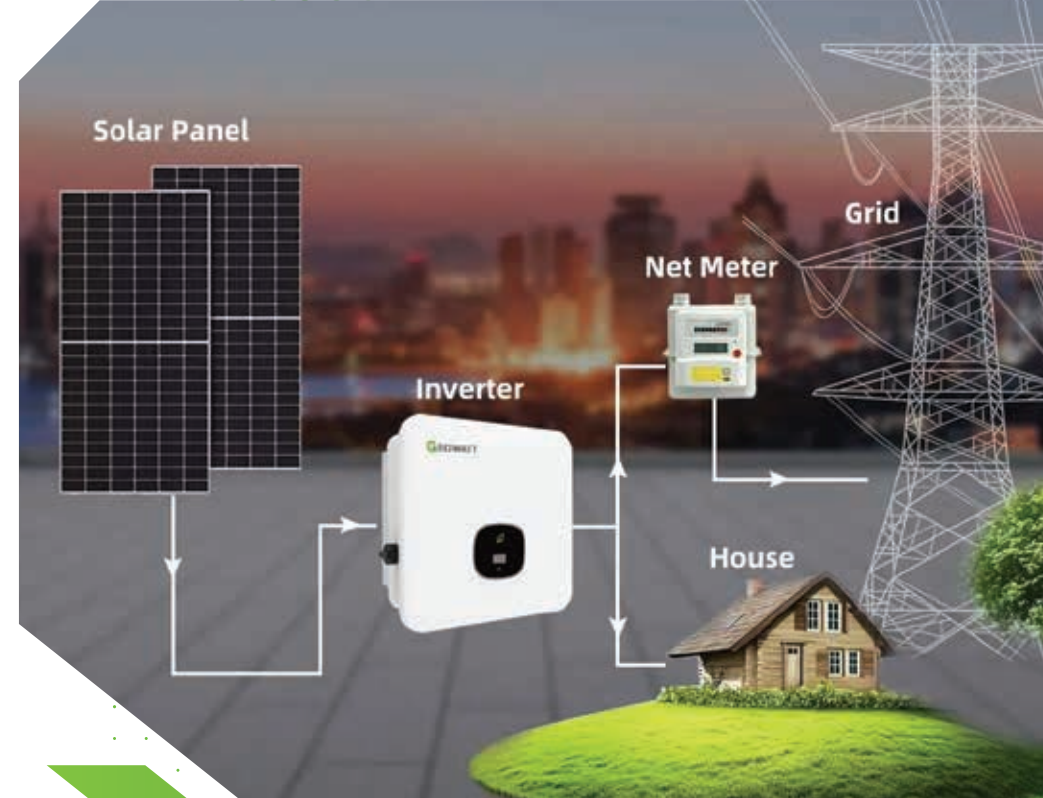


On Grid Solar System

Important Considerations

Understanding limitations helps you make informed decisions.

- ▶ Dependent on utility grid, no power during outages
- ▶ No energy independence; relies on grid during non-sunny hours
- ▶ Requires reliable grid connection, unsuitable for rural areas
- ▶ Net metering approval processes can be lengthy



On Grid Solar System



24V Wall Mount Lithium Battery 200ah

- ✓ Name: wall mount battery 25.6V 200Ah
- ✓ Cycle Life: More than 6000 times (@25°C 80% DOD)
- ✓ Max Charge and Discharge Current: 100A
- ✓ Warranty: 5 years, 10 years (Customization)
- ✓ Certification: CE, FCC, CCC, UN38.3, UN3480, Class 9
- ✓ Customization: size, appearance, Link Bluetooth, Wifi, etc.
- ✓ Dimension: 680mm*495mm*280mm
- ✓ Gross Weight: 56kg
- ✓ Place of origin: China

This is our wall-mounted lithium energy storage battery



Wall Mounted Battery



Stacked Lithium Battery

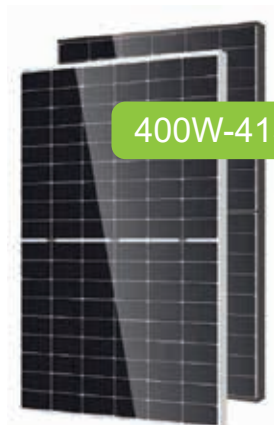


Floor Mounted Lithium Battery



Lithium Battery with Inverter

Panel-PV:



400W-415W

400W-415W PERC
Mono-facial Solar Panel



450W-465W

450-465W Mono PERC
Half Cut Solar Panels



540W-560W

540-560W PERC
Mono Solar Panel



540W-560W

540-560W PERC
Mono Solar Panel

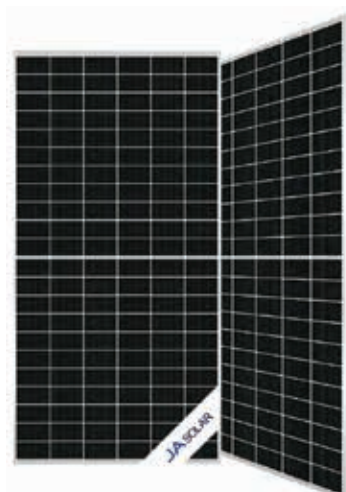


420-445W

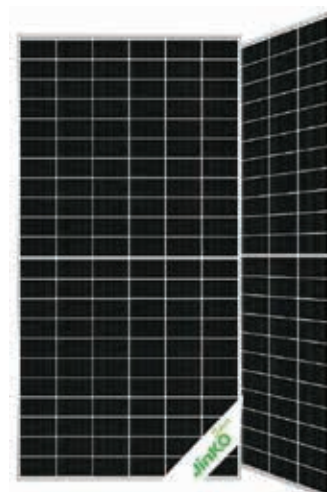
420-445W N Type
Bifacial Solar Panel



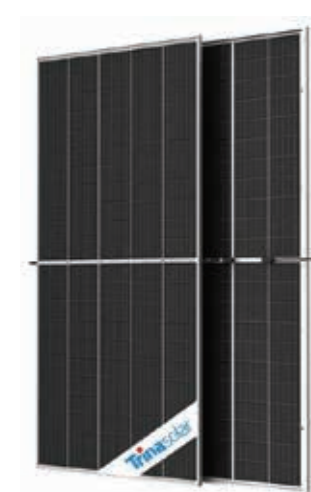
Longi Solar Panels
400W-670W



JA Solar Panels
380W-650W



Jinko Solar Panels
380W-715W



Trina Solar Panels
380W-720W

HYBRID Solar System



Hybrid
15 KW

15KW Low Voltage Rooftop Hybrid System Growatt Inverter

Single-Phase Low Voltage

Installation: Rooftop



Hybrid
15 KW

15KW Low Voltage Hybrid Solar System Growatt Inverter

Single-Phase Low Voltage

Installation: Ground-Mounted



Hybrid
15 KW

15KW High Voltage Hybrid Solar System with Afore Inverter

Three-Phase High Voltage

Installation: Rooftop



Hybrid
15 KW

15KW Ground-mounted High Voltage Hybrid Solar System 30KWh

Three-Phase High Voltage

Installation: Ground-Mounted

On Grid Solar System



Single Phase
3-6KW
On Grid

3-6KW On Grid Solar System Single Phase

3KW 5KW 6KW on grid solar systems for residential use.



Single Phase
7-10KW
On Grid

7-10 KW On Grid Solar System

8KW 10KW on grid solar system for residential use.



Single Phase
3-15KW
On Grid

3-15 KW On Grid Solar System

3KW 5KW 6KW 8KW 10KW 15KW on grid solar system.



Three Phase
11-30KW
On Grid

15KW 20KW 30KW On Grid Solar System

11KW 15KW 20KW 22KW 25KW on grid solar system three phase.

Off Grid Solar System



15KW Residential Off Grid Solar System With 30KWh Battery

Single-Phase Low Voltage

Installation: Rooftop

Battery: 30KWh



15KW Ground-mounted Off Grid Solar System Residential

Single-Phase Low Voltage

Installation: Ground-mounted

Battery: 30KWh



15KW Rooftop Off Grid Solar System With 15KWh Battery

Single-Phase Low Voltage

Installation: Rooftop

Battery: 15KWh



15KW Ground-mounted Off Grid Solar System 15KWh

Single-Phase Low Voltage

Installation: Ground-mounted

Battery: 15KWh

Accessories:

								
AC Connector	AC Connector 5 Cores	Air switch	Communication Connectors (network port)	CT	DC Connector	NTC	RS485 Modular	Single Phase Power Meter
								
Battery Connector	Communication Adapter	Communication connectors (4 cores)	Monitoring - Ethernet	Monitoring-4G	Monitoring-Wi-Fi with Bluetooth	Surge protection Device	Three-phase Power Meter	

House Unit Calculations:

Location: **Rajshahi** Average available daylight (Hours) **6.25**

Load Name	No. of Load	Power of Load (W)	Hours of Use	Total Energy (Wh)
LED Bulb	6	10	5	300 Wh
Ceiling Fan	5	75	8	3000 Wh
Television	1	100	5	500 Wh
Refrigerator	1	150	24	3600 Wh
Water pump	1	500	2	1000 Wh
Router	1	10	24	240 Wh
Air Conditioner	2	1000	8	16000 Wh
Desktop Computer	1	200	4	800 Wh
Total Power:		3395 watts	Total Energy	25440 Wh

Your Estimated Monthly Energy Consumption **≈ 763 kWh or Unit**

Yearly Unit Utilization - 91584 kW

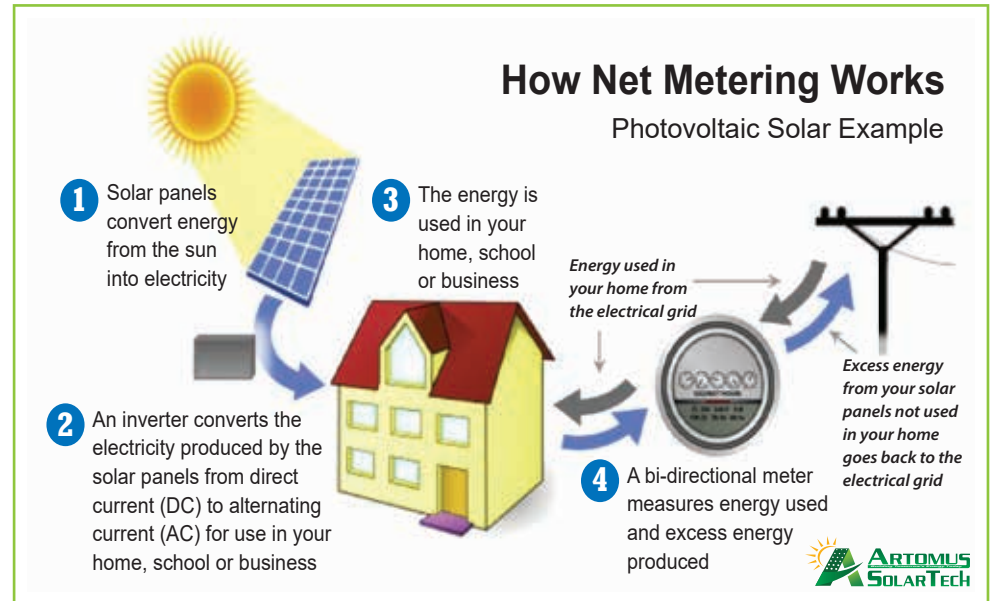
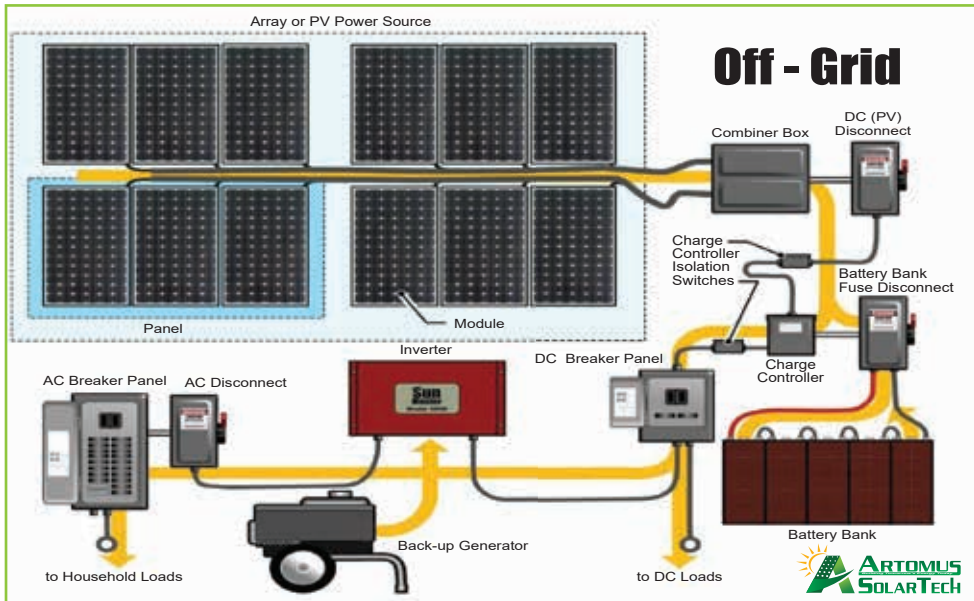
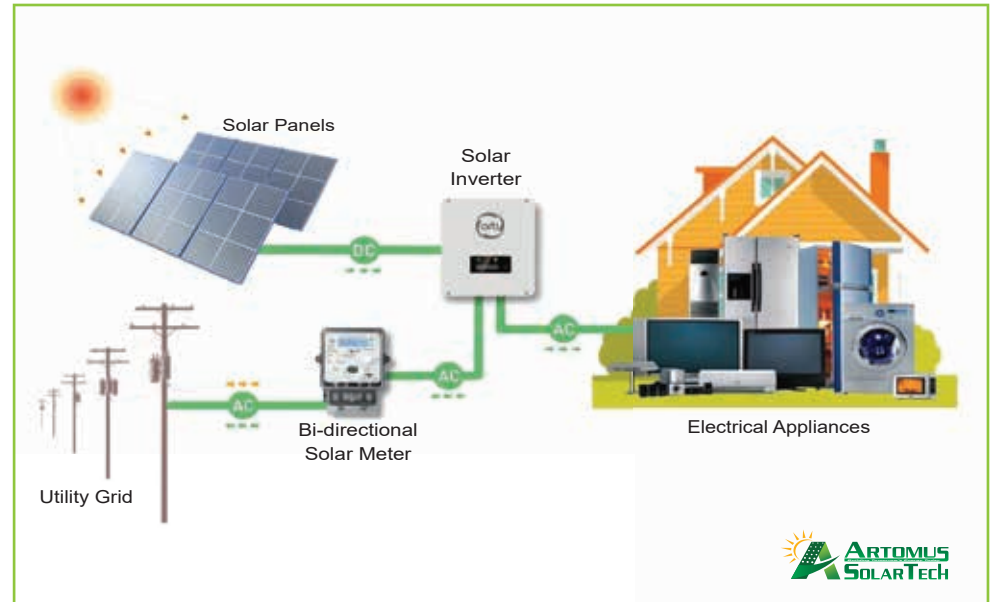
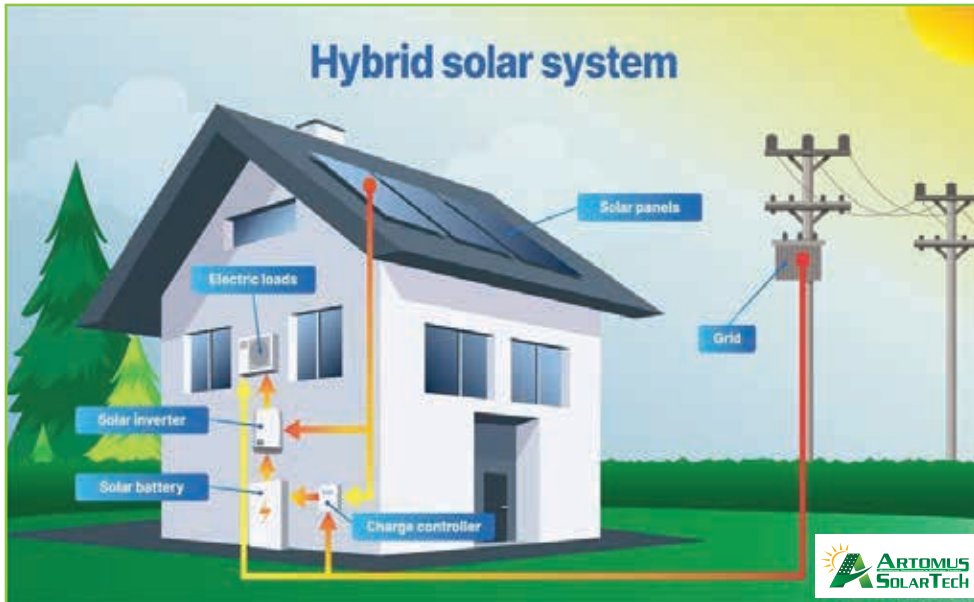
1 Year Cost- 1,11608 + VAT

3 Year Cost – 3.34825 + VAT

(If No Change the Unit Price)

5 Year Cost – 5,58040 + VAT

(If No Change the Unit Price)



Comparing Solar Solutions

Choosing What's Right for You

Find the perfect solar system based on your location, budget, and energy needs.

SOLAR | AGL SYSTEM

PROFESSIONS : DII HOIN TYPE

OFF GRID

- ✓ Battery storage
- ✓ Simestaton gent Banacy for sestem
- ✓ Defeecs fal a tad ceter

HYBRID

- ✓ Battery storage
- ✓ Sanfers for gcid Battesy for talaten
- ✓ Bateery for ettird ceiterd

ON GRID

- ✓ Saltermd
- ✓ Sanesc foresgent Renesy formme.
- ✓ Batects lel e fud geot

Off Grid: Full energy independence, ideal for rural areas

Hybrid: Best of both worlds with backup power

On Grid: Cost-effective for urban settings with reliable grid

Consider: Initial investment vs long-term savings



***Your Trusted
Solar Partner***

**Let's build
tomorrow's energy
today – together!**

**Get in touch for your solar
consultation today!**

Thank You!

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Why Choose ARTOMUS SolarTech?

**Delivering reliable, sustainable solar energy
solutions across Bangladesh.**

- ✓ Customized solar solutions for your needs
- ✓ Expert installation & maintenance
- ✓ Commitment to quality safety & sustainability
- ✓ Local presence & trusted support
- ✓ Always meet the exists customer requirements.
- ✓ 24/7 call center support
- ✓ 12 Months EMI

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