中国电缆工程有限公司
China National Cable Engineering Corporation

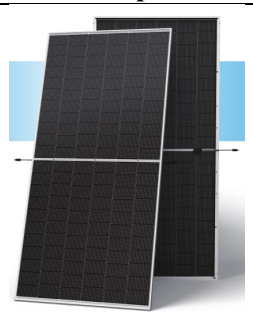
Bangladesh Household / Small-C&I Solar-Plus-Storage System

----------"*No More Black-outs, Lower Electricity Bills*"

1. Problems We Solve

Problem	Solution
2–3 h daily black-outs	5 kWh $LiFePO_4$ battery, 0 ms transfer
Rising monthly electricity bill	PV self-consumption saves ≥ 360 kWh per month
Unstable grid voltage	Regulated 110 / 220 V output protects appliances

2. Standard Kit at a Glance

Module	Details	Product Feature	Sample
High-efficiency N-type i-TOPCon bi-glass modules	595-625 Wp	12-year product warranty, 30-year linear power warranty， ≤ 1% first-year degradation, ≤ 0.4 % annual thereafter.	
5 kWh Battery Cabinet	48 V, 16-s $LiFePO_4$; AC output：110Vac/220Vac	＞8000 cycles, stackable to 20.48 kWh; Expandable up to 3 parallel clusters; works in harsh environments.	

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3. Typical Applications

Typical Applications	Details	
Villa / Household	Off-grid or grid-tied micro-grid tailored for villas; day-time solar, night-time battery, intelligent EMS max self-consumption.	
Mini EV Charging Station	PV + storage supply clean, reliable local energy, reducing demand-charges and diesel back-up.	
Rural Hamlet	Where grid is weak or non-existent; PV charges batteries by day, powers lights, fans and small appliances by night, cutting diesel cost.	 

4. Installations

（1） **Chittagong Soykat Hotel (Bangladesh)**

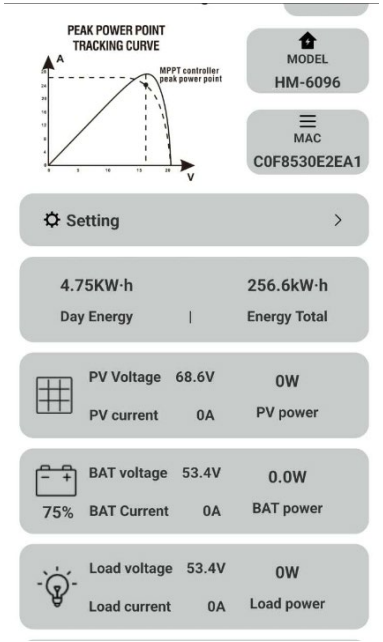
Completion Time：2025.9； Configuration：3.8kW Solar+5kWh BESS

【Brief】The hotel has a high daily visitor volume and incurs high electricity costs. After the completion of this photovoltaic-storage project, it provides stable daily and nighttime power supply for the lighting and other electrical appliances in each meeting area of the hotel, approximately 700kW.

（2） **Chittagong XELTRA Factory**

Completion Time：2025.9； Configuration：3.8kW Solar+5kWh BESS

【Brief】The power grid in this area is extremely unstable and the electricity cost is high. After the completion of this photovoltaic-storage project, the unstable power supply for lighting in this small factory has been resolved, including lighting lamps, fans, and small charging stations, totaling approximately 900kW.



（3） **Dhaka Basundhara Apartment**

Completion Time：2025.9； Configuration：3.8kW Solar+5kWh BESS

【Brief】This set of photovoltaic storage equipment is used to power the corridor lights and lighting and fans in the lobby of the entire apartment building, with a capacity of approximately 600kW.

（4） **Bangladesh Bandarban Resort**

Completion Time：2025.9； Configuration：3.8kW Solar+5kWh BESS

【Brief】This area is currently not connected to the power grid and relies on diesel generators for daily electricity supply, which is costly. After the completion of this photovoltaic-storage project, it has met the daily electricity needs of this guesthouse, including ceiling lights, table lamps, electric fans and other small household appliances, totaling approximately 500kW.

5. **Built-in Safety**

   Over-load / short-circuit / over-temperature protection

   Lightning surge arrester

   Anti-islanding protection

   Real-time monitoring via mobile APP

6. **21-Day Delivery, 3 Easy Steps**

   Free site survey & load assessment

   Engineer design & custom mounting

   1–2 days installation & on-site user training

7. **Contact us:**

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