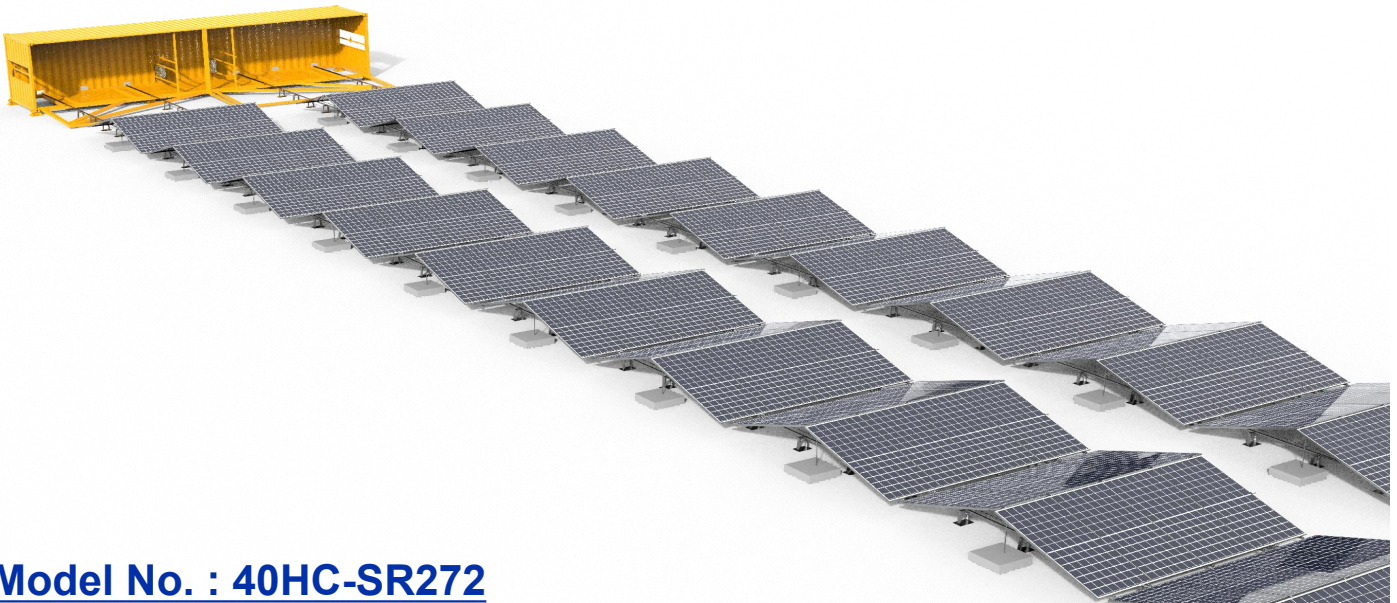




# Modular Microgrid Power Solutions

Mobile containerized solar rack system for rapid off-grid deployment in remote locations.



**Model No. : 40HC-SR272**

## QUICK DEPLOYMENT



1. Leveling and ground preparation.



2. Lift the container onto the prepared ground, and take out the parts.



3. Use a crane or forklift to tilt the side wall onto the ground.



4. Install the tracks and the winch/motor.



5. Start the winch/motor, deploy the panels.



6. Connect the PV cable harness.

## APPLICATIONS



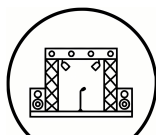
Mining



Military



Island Areas



Events



Construction Site



Disaster Relief



Desalination



Off-grid Areas

## FEATURES

- ✓ Mobile System
- ✓ Quick Deployment
- ✓ Scalability
- ✓ Grid Independence
- ✓ Robust Construction
- ✓ Wide Applications
- ✓ Cost-Effectiveness
- ✓ Energy Savings



| Category              | Parameter                         | Value                                        |
|-----------------------|-----------------------------------|----------------------------------------------|
| General Configuration | Product Model                     | 40HC-SR272                                   |
|                       | Solar Array Capacity (Pmax / kWp) | 272                                          |
|                       | Total Weight (tons)               | 28                                           |
|                       | Unfolded Footprint (L×W×H, m)     | 115 × 12.5 × 2.9                             |
|                       | Folded Dimensions (L×W×H, m)      | 12.2× 2.4 × 2.9                              |
|                       | Max. Slope Tolerance              | 1%                                           |
|                       | Installation Orientation          | Any azimuth                                  |
|                       | Full Unfolding Time (mins)        | 180                                          |
|                       | Full Folding Time (mins)          | 80                                           |
|                       | Required Installation Crew        | 4 persons                                    |
| Container             | Expansion Method                  | - Electrical winch expand & ground install.  |
|                       | Type                              | 40HC                                         |
|                       | External Dimensions (L×W×H, mm)   | 12,192 × 2,438 × 2,896                       |
|                       | Tare Weight (tons)                | 3.8                                          |
|                       | Coating grade                     | C4 or C5-M                                   |
| Mounting Structure    | Shipping Class Certification      | CCS (ABS or other option)                    |
|                       | Material                          | Steel square tube (Hot-dip galvanized)       |
|                       | Single Bracket Size (mm)          | 4,742 × 2,468 × 50                           |
|                       | Panels per Bracket                | 4                                            |
|                       | Deployment Angle                  | 15° (Adjustable by project)                  |
|                       | Total Bracket Length (m)          | 106                                          |
|                       | Projected Area (m²)               | 1,438                                        |
| Solar Panels          | Number of Brackets                | 104                                          |
|                       | Panel Model                       | LR7-72HVHF - 655M (Other model customizable) |
|                       | Panel Type                        | BC                                           |
|                       | Max. Power per Panel (Wp)         | 655                                          |
|                       | Vmpp (V)                          | 44.66                                        |
|                       | Imp (A)                           | 14.67                                        |
|                       | Voc (V)                           | 54                                           |
|                       | Isc (A)                           | 15.37                                        |
|                       | Panel Dimensions (mm)             | 2,382× 1,134 × 30                            |
|                       | Weight per Panel (kg)             | 28.5                                         |
| Solar Array           | Panel Qty. per String             | 16                                           |
|                       | String Qty.                       | 26                                           |
|                       | Total Panel Qty.                  | 416                                          |
|                       | String Voltage- Voc               | 864                                          |
|                       | String Voltage- Vmpp              | 714.56                                       |
|                       | Parrel Current - Isc              | 399.62                                       |
|                       | Parrel Current - Imp              | 381.42                                       |
|                       | Total Array Power - kWp           | 272                                          |