



***ENERGY
CUBE***

30kW/60kWh

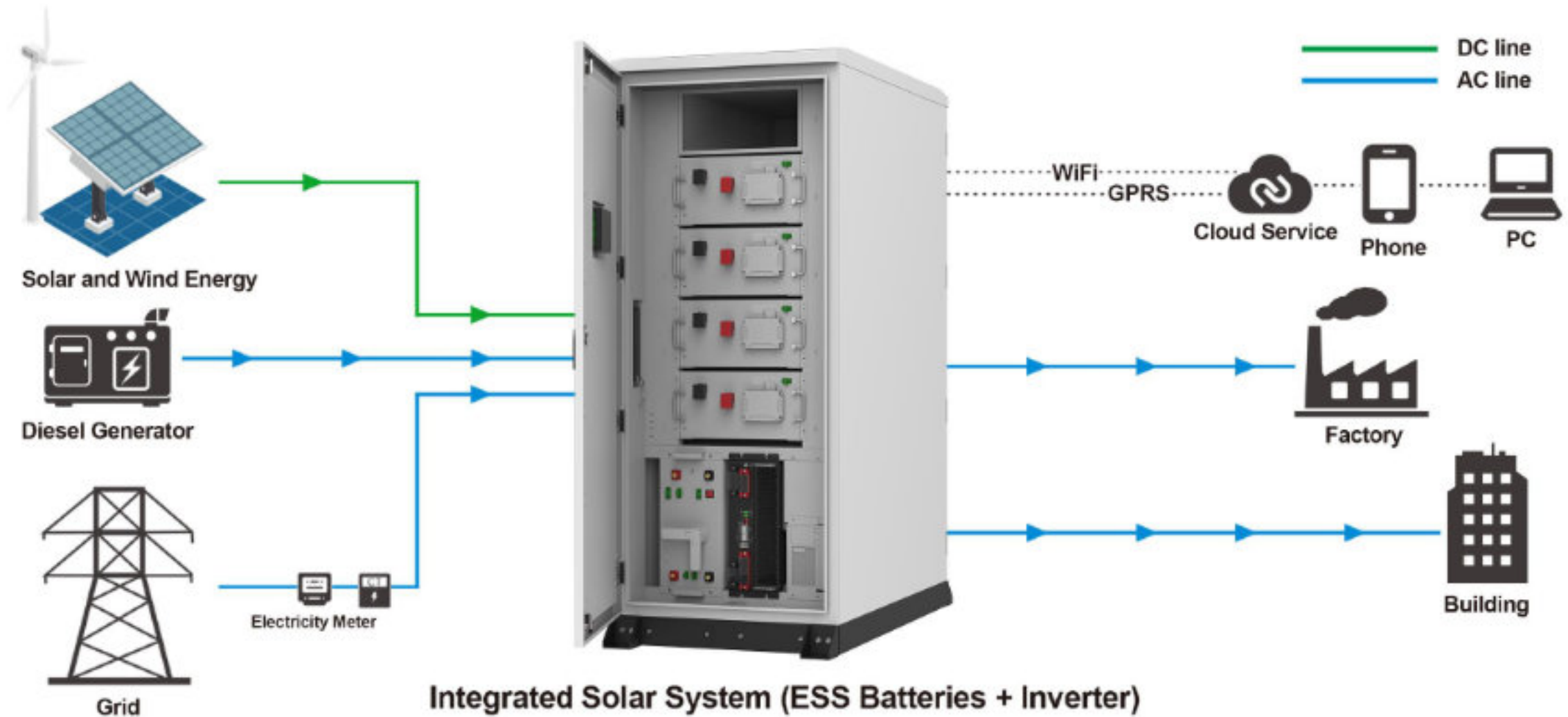
Presentation of C&I Solar System

PV: 30kW

PCS: 30kW

ESS: 60 kWh

System chart



1. Energy Cube: 30 kW PCS + 60 kWh ESS



Battery Pack (LiFePO₄): 51.2V/314Ah = 16.07kWh
16.07kWh * 4 set = 64.30kWh

Power Conversion System: 30KW

PV Max Power Input: 30 kW

Energy Management System (EMS)

LCD Monitor

Communication Port: EMS: RS485; Battery: CAN or RS485

Cabinet Dimensions: 800 × 14500 × 2100 mm

Weight: about 1000 kg

Cooling: Air conditioner

Fire Extinguishing System

IP Rating: IP54

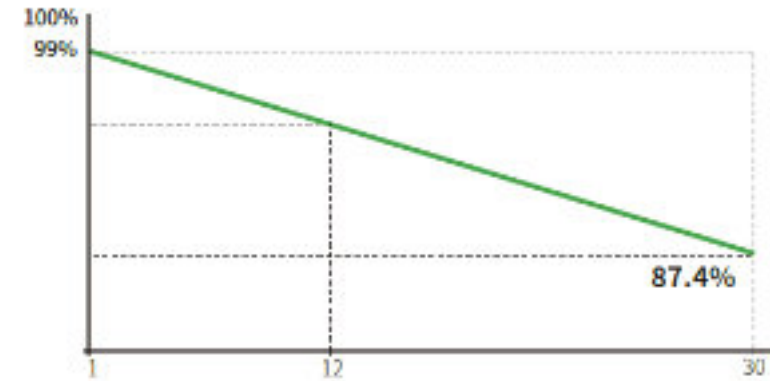
Inverter Certificate: CE, IEC62019, IEC62477, IEC6100, EN50549

2. PV

Brand



- Maximum power output: **600W**
- High 1500 VDC maximum system voltage
- Modul efficiency STC 23.23%
- Dual-sided power generation
- 12-Year Product Warranty
- 30-Year Linear Power Warranty up to 87.4%
- **Quantity: 50 pcs (30 kWp)**



12 Year
Product Warranty

30 Year
Linear Power
Warranty

1%
First-year
Degradation

0.40%
Annual Degradation
Over 30 Years



POSITIVE QUALITY™
Continuous Quality Assurance

2. PV

SPECIFICATIONS	
Module Type	JKM600N-78HL4-BDV
	STC NOCT
Maximum Power (Pmax)	600Wp - 451Wp
Maximum Power Voltage (Vmp)	45.25V - 10.71A
Maximum Power Current (Imp)	13.26A - 42.12V
Open-circuit Voltage (Voc)	55.03V - 52.27V
Short-circuit Current (Isc)	13.87A - 11.20A
Module Efficiency STC (%)	23.23%
Operating Temperature(°C)	-40°C~+85°C
Maximum system voltage	1500VDC (IEC)
Maximum series fuse rating	30A
Power tolerance	0~+3%
Temperature coefficients of Pmax	-0.30%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.046%/°C
Nominal operating cell temperature (NOCT)	45±2°C



3.1 Flat Roof PV Mounting Structure

Concrete flat roof brackets

Material: Q235B

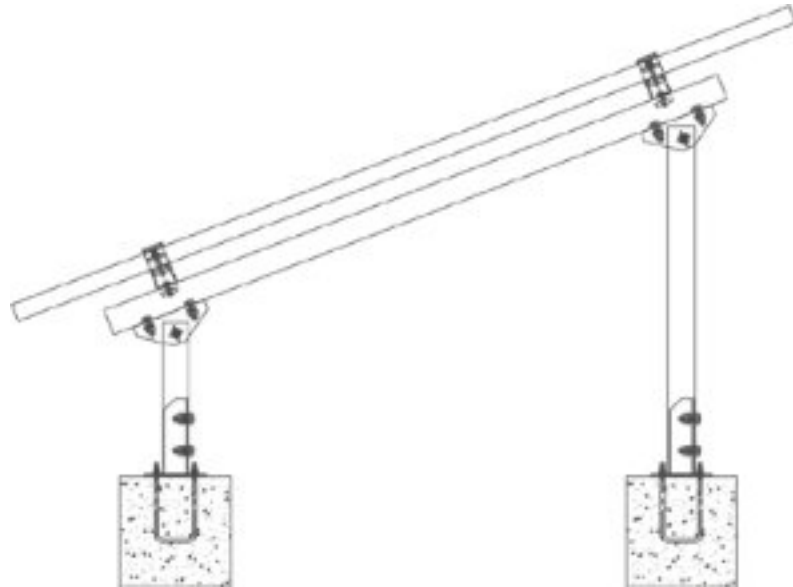
Surface Treatment: Hot Galvanized

- Optimal material utilization
- High durability
- Reusable materials
- Low maintenance
- Time-saving assembly
- Designed to combat inclement weather on any terrain
- 25 Years of Warranty
- Height adjustable



3.1 Flat Roof PV Mounting Structure

Structure Diagram Of The Bracket system



Triangle Connection



End Clamp Kit



Beam Connection



Mid Clamp Kit



C beam



Base



3.2 Corrugated Sheet PV Mounting Structure

Corrugated metal sheet brackets

Material: AL6063-T5

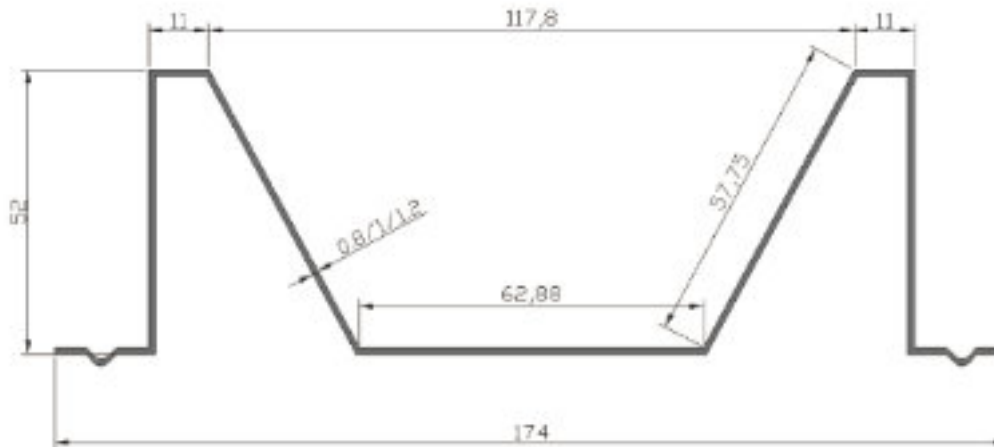
Surface Treatment: Anodizing AA15

- Optimal material utilization
- High durability
- Reusable materials
- Low maintenance
- Time-saving assembly
- Designed to combat inclement weather on any terrain
- 25 Years of Warranty



3.2 Corrugated Sheet PV Mounting Structure

Structure Diagram Of The Bracket system



M-shaped Trough



Strengthen the Bottom



Lateral Trough



Padel



Cross Stretcher



4. Cables and Accessories



PV Combiner Box

For easy connection between
PV array and charge controller

Lightning & surge protection



PV Cable

Specifications: 4/6/25 mm²

100 m Black, 100 m Red



MC4 Connectors