



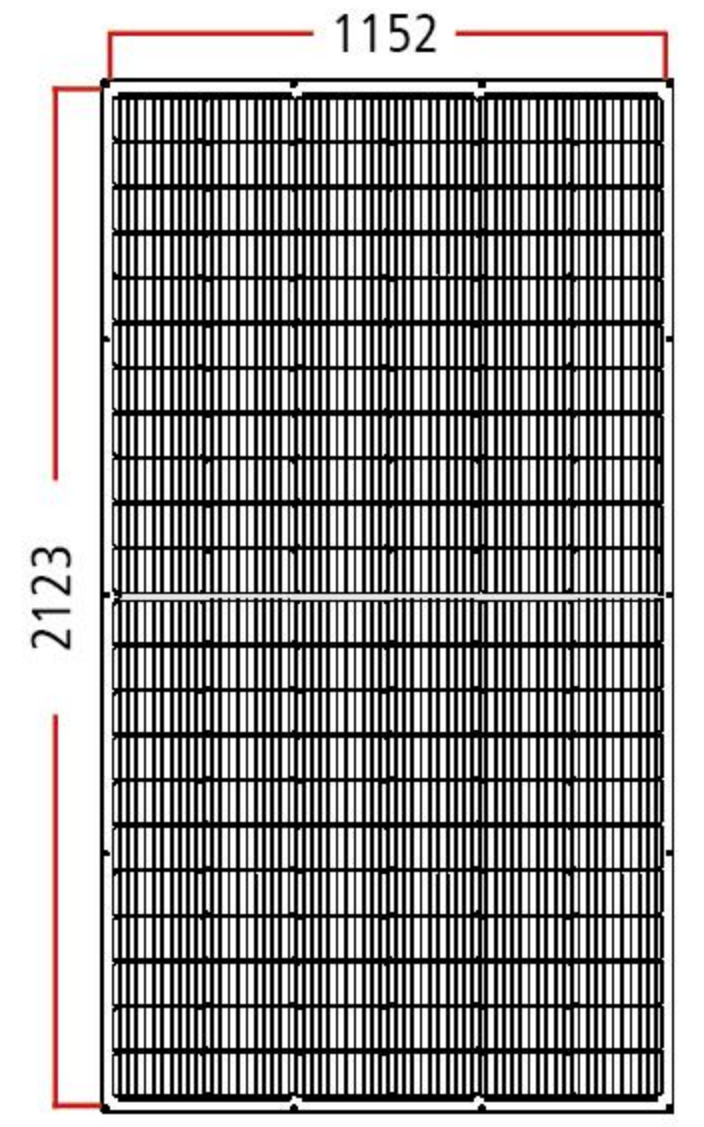
鲲鹏
KUNPENG
集装箱能源基站

Movable PV container solved a lot of problem in off-grid power supply situation. It also saves the cost of the diesel power generation. The market of 2025 expected to reach more than 1 billion USD. Movable PV container supplies power to short term usage and a lot of offgrid usage scene. It can be expanded and collapsed by 2~3 persons in no more than half an hour.



The usage scene of Movable PV Container:

- Construction Site
- Urban Internet
- Outdoor Activities
- Mining Area
- Wilderness Exploration
- Rural Power Supply

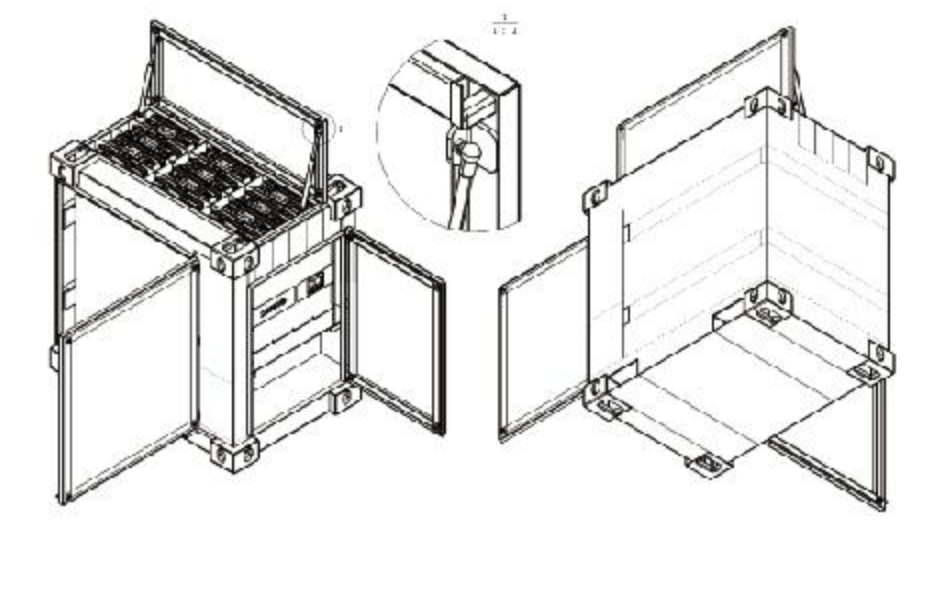
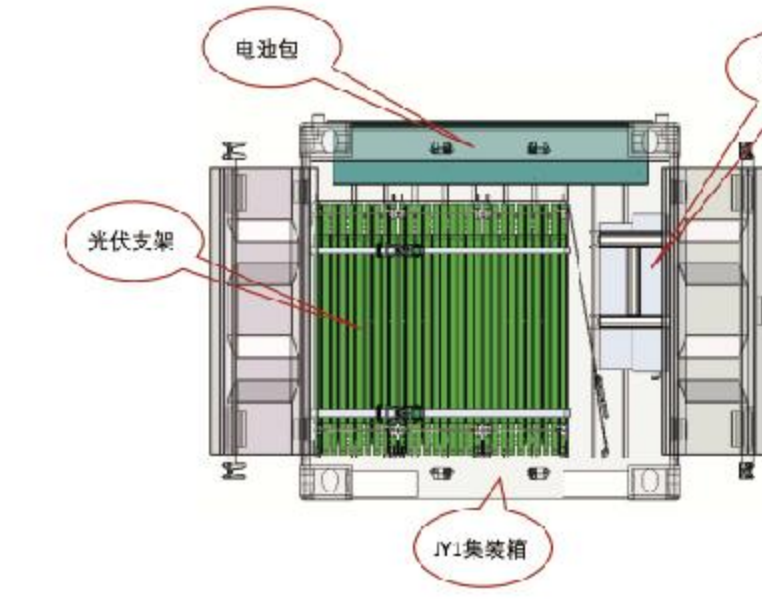
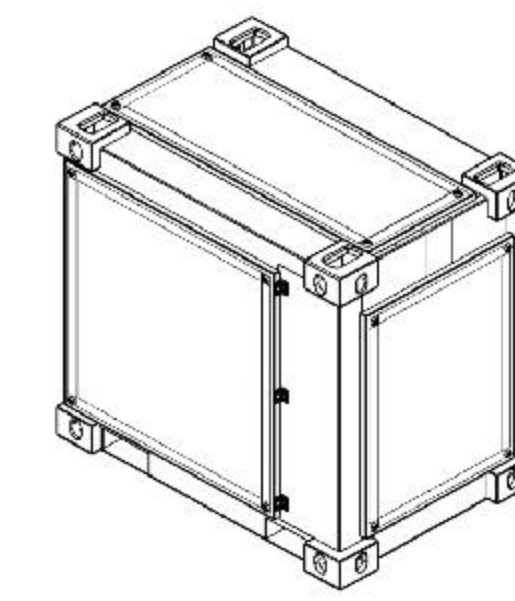
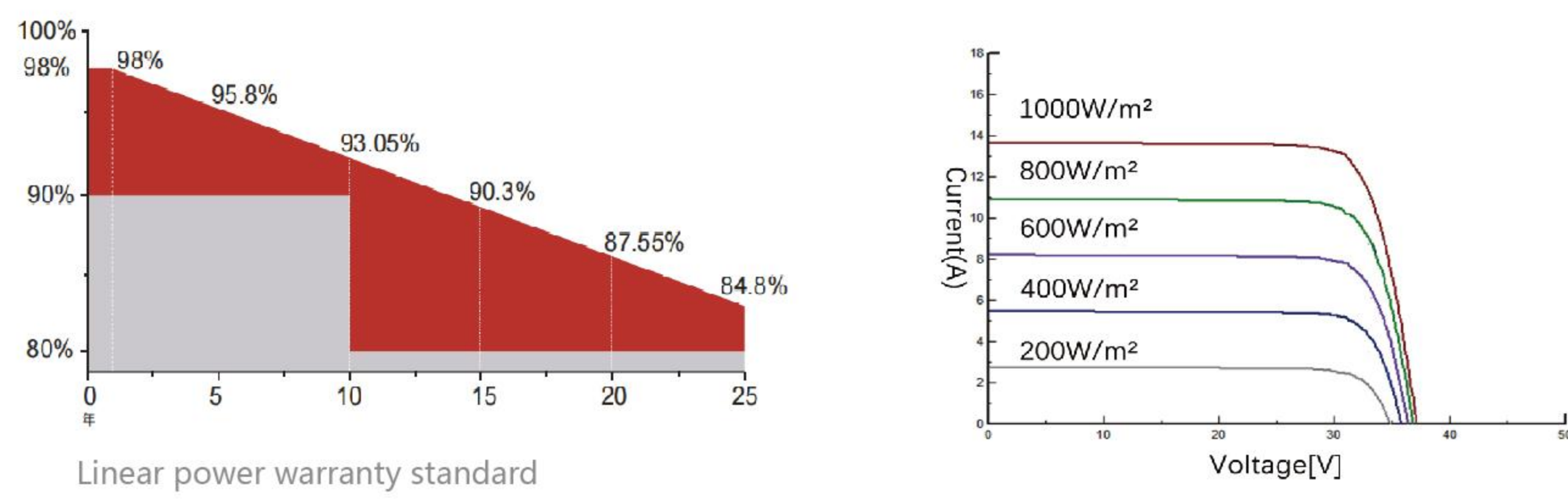


ELECTRICAL CHARACTERISTICS	
STC	AP-500-FR15
Maximum Power (P _{max})	500W
Maximum Power Voltage (V _{mp})	39.65V
Maximum Power Current (I _{mp})	12.66A
Open-circuit Voltage (V _{oc})	46.96V
Short-circuit Current (I _{sc})	13.28A
Module Efficiency (%)	20.47%
Operating Temperature	-40°C to 85°C
Maximum System Voltage	150VDC
Maximum Series Fuse Rating	20A
Application Class	Class A
Power Tolerance	0~+5W
STC irradiance: 1000W/m ² , module temperature: 25°C, AM=1.5	

40" PV container can install 200KW panels. The energy storage setup as 400KWh. EPC total cost is 161,000USD. If we calculated the cost of gas is 0.35USD per KWh, the total cost of the power which PV generated is 81,900USD. The investment reverse time is 1.97 years. The PV panel can be used for 25 years, the revenue of rest time is profit.

Movable PV Bin

Combine with solar panel, energy stock and controller, compatible with off grid and on grid. Design for customer's requirement.



Internal structure diagram

Open schematic

TEMPERATURE CHARACTERISTICS

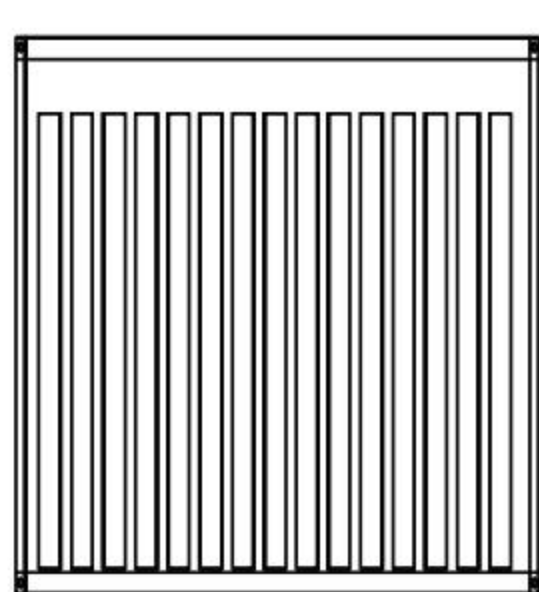
NOCT(Nominal Operating Cell Temperature)	45 ±2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.020%/°C

Application of mobile PV box

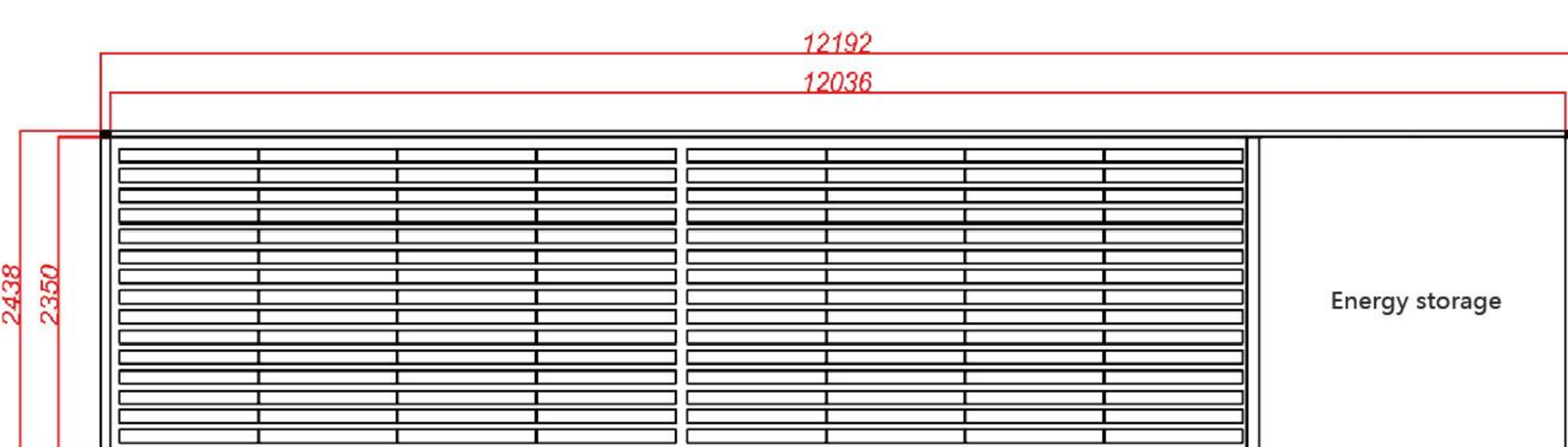


Specific parameters

40" PV Container



- Safe and reliable
- Easy to move
- Adaptable
- Easy to operate
- Quick cost recovery
- Low-carbon environment

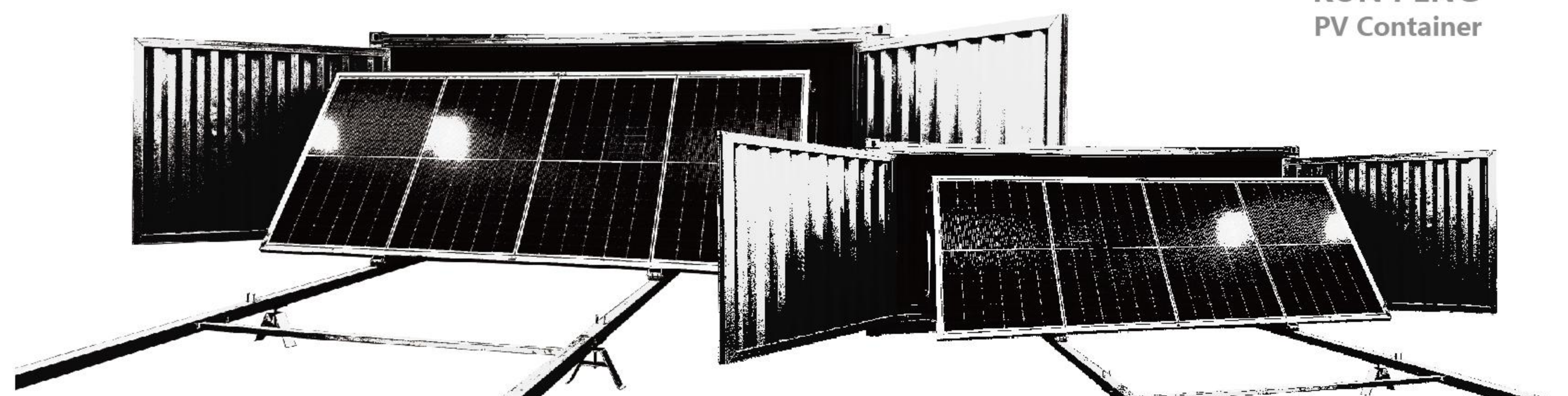


Structure diagram

Container Size	PV Capacity (KW)	Storage (KWh)	Power Output (KWh)	EPC Cost (USD)	Diesel Cost per KWh (USD/KWh)	Diesel Cost in Total (USD)	Cost Revestment
40"	200	400	234000	161111	0.35	81900	1.97

Container Size	PV Capacity (KW)	Power Output (KWh)	CO2 Save (Ton)	SO2 Save (Ton)	Coal Save (Ton)	Dusty Save (Ton)	Carbon Oxide Save (Ton)
40"	200	234000	193.75	2.36	70.20	0.52	3.56

PV (KW)	Energy Stock (KWh)	Container Size	Size (M)	Weight (Kg)
30	60	20 GP	L 5.9 * W 2.35 * H 2.39	2640
50	100	20 GP	L 5.9 * W 2.35 * H 2.39	3000
100	200	20 GP	L 5.9 * W 2.35 * H 2.39	3900
175	300	40 HQ	L 12 * W 2.35 * H 2.69	7000
250	0	40 HQ	L 12 * W 2.35 * H 2.69	6500



KUN PENG PV Container