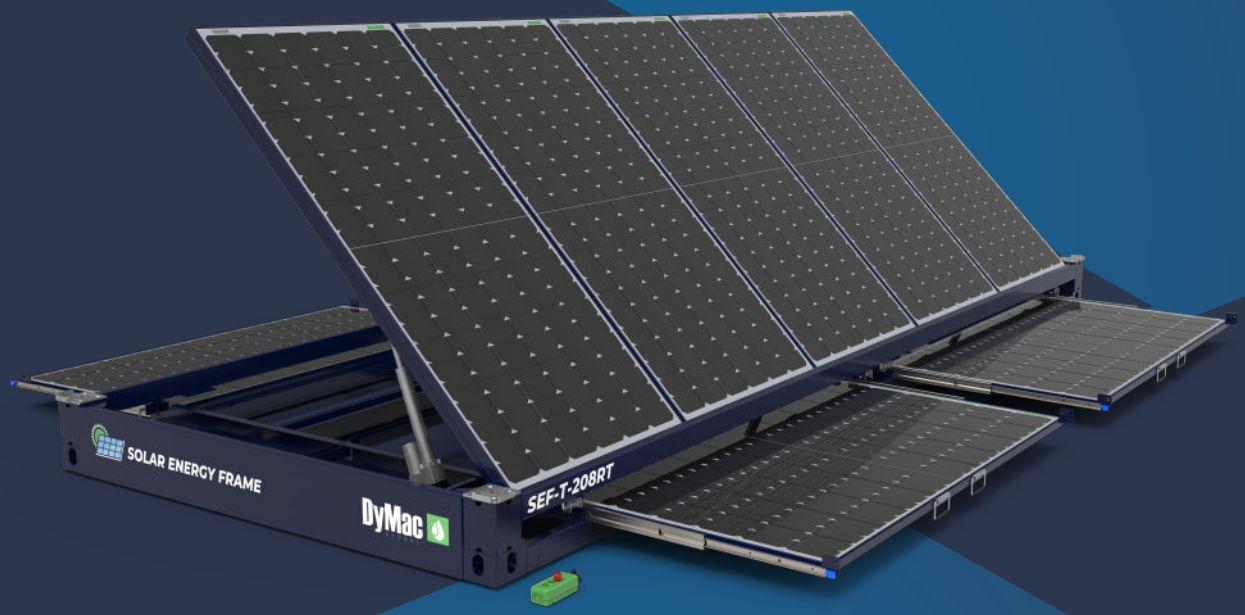
DyMac GLOBAL

SOLAR ENERGY FRAME



Solar Energy Frame:

✓ **SEF-T-208RT**

Harvesting Clean Energy / Protecting Our Environment

MODEL : SEF-T-208RT



Solar Energy Frame – Tiltable 20’ x 8’ Retractable Tray (SEF-T-208RT)

Overview

The SEF-T-208RT is a heavy-duty, ISO-compliant solar frame engineered for reliable, high-performance power generation in demanding environments. The system integrates nine 600W monocrystalline solar panels, with four mounted on retractable trays and five on a tiltable frame assembly, delivering a total output of 5.4 kW DC.

Mechanical Specifications:

The structure is manufactured from high-grade structural steel, designed to withstand rigorous site conditions and ensure long-term operational durability. It is fitted with four ISO corner castings, enabling secure and stable mounting on ISO containers, cabins, or modular buildings.

For lifting operations, four M24-rated eyebolts are installed at each corner, providing certified and secure hoisting points. The unit also features integrated forklift pockets (250 × 100 mm), allowing efficient handling using standard material handling equipment.

The system incorporates a tiltable main frame supporting five fixed panels for optimized solar alignment, while four additional panels are mounted on retractable sliding trays. These trays extend during deployment to maximize solar capture without increasing transport dimensions.

All steel components are protected with a high-performance coating system, consisting of a primer layer followed by a Steel Blue (RAL 5011) topcoat with a dry film thickness (DFT) of 120–150 microns, This ensures superior corrosion resistance and long service life in harsh environmental conditions.

Transportation & Maneuverability:

The SEF-T-208RT is purpose-built for efficient transport and deployment. The design allows for stacking of up to five units on a flatbed trailer, optimizing logistics and reducing transportation costs. All retractable trays are mechanically secured during transit to prevent movement and potential damage.

Integrated forklift pockets ensure precise and efficient onsite maneuverability, supporting safe and rapid installation.

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PV Module Details	
Rated Power	600 W (per module)
Cell Type	Mono PERC
No. of Modules	9 Numbers
Protection	IP68
Glass	Single Glass, 3.2mm Coated tempered glass
Total Installed Power	5.40 kWp
Voc	52.81 V
Vmp	44.66 V
Isc	14.46 A
Imp	13.44 A

Electrical Configuration	
Array Configuration	3Series × 3Parallel
Modules per String	3
Number of Strings	3
Voc (array)	158.43 V
Vmp (array)	133.98 V
Isc (array)	43.38 A
Imp (array)	40.32 A

Panel Tilt Details	
Power	DC
Type	Linear Actuator
Voltage	48V
Qty	3
Max Tilt Angle	45°
Remote Tilt	Yes

*The information listed in this document is for illustration purposes only and may be subject to change without notice. Users are responsible for verifying its suitability for their needs.

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Mechanical Configuration	
Lifting Options	ISO corners / Forklift
Structure	Mild Steel with ISO corners
Paint	Powder Coat
Dimension	6058x2438x308 (mm)
Weight	1275kg
Temperature-Corrected Values	
Voc Temp Coefficient	-0.230 %/°C
Max Voc (@ -10°C approx.)	~171 V
Environmental Ratings	
Operating Temperature	-40°C to +85°C
Nominal Cell Temp (NOCT)	45 ± 2°C
Front Load	5400 Pa
Rear Load	2400 Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s
Output Interface	
Output Type	DC
Output Terminals	3 Pairs of MC4 Connectors
Cable Size	4 mm² (module standard)
Protection	DC isolator + fuse
Input Interface	
Input Type	DC
Voltage	DC51.2V
Purpose	Actuator Power
Performance Summary	
Total Power	5.40 kWp
Operating Voltage	~134 V
Operating Current	~40 A
Configuration Type	Low voltage / High current
Loading Details	
Per 40 Feet HC	4 Numbers

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