1.2 Megawatt Carport Array
Lawrence Township, NJ 08648

Solar Carport Systems
Engineering Services
Every carport project is unique, as multiple factors can impact the PV layout and structural design.
- Parking lot orientation and space
- City/County/State Regulations
- ASCE Hazard & Structural Guidelines

No matter what variables arise, our executive engineering team will design a system that offers you the most cost effective solution for your project.

PV Production vs Aesthetics
After our NABCEP PV designers finalize the layout that meets your energy production requirements, our structural and civil engineers will provide all of the certified drawings and calculations for permit approval.

SDE Product Standards
All structural components are in strict compliance with the standards set forth by the American Iron and Steel Institute’s Specifications for Formed Steel Structural Members. SDE has invested in an ISO-9001 Quality certification (currently in progress).
ENGINEERING

MANUFACTURING

INSTALLATION

T-FRAME DESIGN (36x 72 Cell Modules/Section)

Y-FRAME DESIGN (36x 72 Cell Modules/Section)

L-FRAME DESIGN (24x 72 Cell Modules/Section)

L-FRAME DESIGN (18x 72 Cell Modules/Section)

PRODUCT SPECIFICATIONS

All product specifications have been verified through third party engineering firms. For areas with higher wind/snow requirements, additional options are available.

20 - 34 foot section spans are available.

PRICING OVERVIEW

SDE calculated our average cost/watt prices, using 350 - 370 Watt Modules. Prices outlined below includes foundation cages, all required racking components, hardware, and freight.

36 PANEL Y or T FRAME CANOPIES: 30 - 35 CENTS/WATT

24 PANEL L FRAME CANOPIES: 40 - 45 CENTS/WATT

18 PANEL L FRAME CANOPIES: 45 - 50 CENTS/WATT
SDE "owns" the manufacturing facility.... Why is this important?

- No third party contracts
- No additional distributor profit margins
- No outsourced fabrication and steel processing
- We control 100% of your project time-line, which results in superior quality, quick response times, and faster product deployment.

All structural components fabricated In-House
**Designed for Rapid Assembly**

**SLR-TRUSS:** All trusses are custom designed for your 60 or 72 cell module choice. Only 2 attachment points from I-Beam to Truss with minimal hardware.

**C-PURLIN:** *No expensive clamps required*

The C-Purlins are processed through a high speed stamping/roll forming line. The slots are precision punched to align with your module frame holes, which results in faster installation times.

**EASE OF INSTALLATION - DESIGNED FOR MINIMAL EFFORT**

*Only 4x Main Components needed*
1. 1x Pre-Welded Foundation Cage
2. 1x Galvanized I-Beam Assembly
3. 1x Upper/Lower Truss Assemblies
4. 12x C-Purlins with pre-punched slots

**Add-Ons Available**
1. End-Caps
2. Close-Outs
3. Strong-backs
4. Gutters
COMPANY OVERVIEW

SDE is a family-owned business established in 2007. Headquartered in Albion Michigan, we have grown to become an international manufacturer of Solar and SATCOM products. We currently employ between 25-30 personnel to support Engineering, Manufacturing, Installation, and Project Management. We are committed to customer satisfaction through continuous improvement.

VISION

Our vision is to become a "one-stop-shop" for your solar project requirements. From preliminary designs to full installation support, we will be there for you!

Contact us today to get your project started.

CONTACT US

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