

Overview

PV CARPORT STRUCTURES

For Framed and Frameless Photovoltaic Modules







Optimized & Designed by Solar Experts

Solar design professionals understand how to maximize the solar energy production from any given site, and a common sense approach to column placement and span distances ensures the functionality of the parking lot is not compromised. By maximizing solar energy harvest and minimizing the amount of steel needed, we can offer the best overall value in quality cantilevered PV Carports.

Innovative Design

Using innovative steel design and modern manufacturing techniques, elegant tapered beams and built up columns of exactly the right dimensions are custom designed to resist the wind, snow and seismic forces for every project.

S:FLEX PV Carports can be individually designed and engineered to meet all space requirements, but there is also a range of standardized designs for the fastest and most cost-effective solutions available. Typically columns are spaced at 27' on center and placed every three parking bays which are often 9'-0" wide.





Efficient Installation

Foundations can be completed prior to the delivery of the steel structure. Any below ground obstacles or problematic soil conditions can be overcome in advance without causing a schedule impact. Longer spans between columns reduce the number of foundations making it easier to avoid any underground services.

The modules of our PV Carport structures can be preassembled and even wired on the ground before fully installing them at height. The structures can be also partially preassembled off-site and then delivered to reduce time on site.

Comprehensive Project Support

Project specific support to optimize material use, ease of installation and logistics are essential to a successful project. S:FLEX offers a large variety of services from design, over geotechnical surveys and preparation of complete permitting packages to the final assembly and module installation.

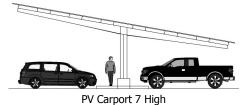
S:FLEX can provide Supply-Only Kits or Full Turnkey Solutions including module installation.

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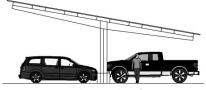
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Application

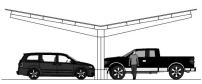
Overview



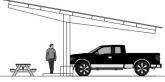
1 V Carport 7 High



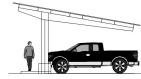
PV Carport 6 High



PV Carport 3-3-Y

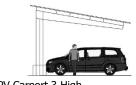


PV Carport 5 High



The PV Carport examples are designed with 72-cell modules in portrait.

PV Carport 4 High



PV Carport 3 High

ut usually up to 15° in North-South direction.
n slope can be overcome by using above grade piers. Structures can be installed parallel to the follow grade.
dule size and format can be accommodated. e built-in flexibility of our system, even last odule changes can be made.
height-adjustable module End-Clamps and Mid- th patented click-technology offer an easy and allation of framed and frameless modules.
Landscape
oans are optimized for each local wind, snow, ic load requirements.
exceeds IBC 2006/2009/2012, ASCE 7-05, ASCE ent Steel and Aluminum Design Manuals, CBC 0 AISC code. Compliant in all North American ns.
red stainless steel bolts and nuts require only a few tools
grounding options are available
Foundations vary dependent on the project quirements. Spread footings and foundations mbedment of helical piers are just some specific laximum adjustability in the field is typically by the use of anchor bolts with leveling nuts.
se of various fabrication facilities in North o meet the variable demands of the markets
aintenance due to galvanized steel structures trial painting options available. Aluminum rails onents are naturally corrosion resistant. re easily accessible for system maintenance.
nited product warranty. Extended warranty est.
ecific design and engineering services as well as n support upon request

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