



## ❖ Single Cantilever Carport - Modules Racked in Landscape

The 'Dual Purlin' racked design with modules facing south consists of two parallel purlins (East/West), perpendicular the solar modules width with attachments positioned on modules short frame. Purlins are in two heights creating the desired module tilt angle. Module rows are spaced apart to avoid shading, and closer together than when modules are in Portrait.

Single cantilever column and beam supports can be either 'Full' or 'Partial' cantilever, where the beam attaches to the column. In this form, we offer straight beams applied in the field by welding or bolting to the columns. Designs available for 5, 10 or 15 degree tilts and sealed roof with decking.

### **Modules**

60 cell (65"): 3, 4 or 5 rows up to 27'-4" wide

72 Cell (77"): 2, 3 or 4 rows up to 25'-10" wide

### **Columns**

Wide Flange Beam: ASTM A992 Gr. 50

Spacing: 27ft O.C.

Finish: One coat tinted water base rust inhibitive primer

Optional: Hot Dip Galvanized ASTM A123

### **Beams**

Wide Flange Beam: ASTM A992 Gr. 50

Spacing: 27ft O.C.

Finish: One coat tinted water base rust inhibitive primer

Optional: Hot Dip Galvanized ASTM A123

### **Purlins**

Zee & Hat Purlins: Cold Formed #14ga. Steel ASTM A570 Gr. 55

Size: Custom Depending On Tilt Angle and loads

Finish: ASTM A653 G90 Galvanized

### **Trim**

Cold Formed #14ga. Steel Gr. 55

Finish: ASTM A653 G90 Galvanized

### **Module Mounting to Purlins**

Top Clamps: W/2 Self Drilling Screws-#12

Preferred: SkyGrip Self Grounding Mid Clamps-

Options:

Top Clamps W/Bolt Thru-Purlin (requires predrilled holes)

Thru-Bolt Module Frame to Purlin (requires predrilled holes)



Full Cantilever- Modules Racked 5 degrees



Lower Hat-Upper Z Purlin-Modules Racked 5 degrees