



Solar Array Support Structure

The modular TSS solar array support structure is a flexible solution for stand-alone solar systems of all sizes. Rigid and easy to install it is the solid foundation for your solar energy system. The smart design of the support structure contributes to overall cost reduction and extends reliability of your solar system.



Flexible solution

Modular design starting at 4 solar modules.
Adjustable tilt angle from 10° to 60°.
Available for different type of solar modules.

Choice of materials

The support structure can be produced in HDG steel or stainless steel (304 or 316).
A standard epoxy powder coating or a project specific coating can be applied.

Reducing cost

Integrated facilities for mounting control equipment eliminates the need for separate control racks and facilities for cables.

Extending reliability

The support is designed so that the batteries can be placed in the shade underneath the solar modules.
Cooler batteries have a longer expected life time.



Creating a solid and highly efficient solar energy system to keep you going ...Always!

Specifications

| Material | |
|----------|-----------------------------|
| | Hot dipped galvanized steel |
| | Stainless steel 304 |
| | Stainless steel 316 |

| Coating | |
|---------|-------------------------------------|
| | (none) |
| | 140 µm epoxy powder coating |
| | Project specific coating (optional) |

| Tilt Angle | |
|-----------------------|--|
| Adjustable in 9 steps | 10°, 15°, 20°, 25°, 30°, 35°, 40°, 50°, 60° (for cleaning purposes only) |

| Load | |
|-------------------|--|
| Maximum wind load | 160 km/h or 44,5 m/s (for comparison 117km/h = 12 beaufort/ hurricane) |

| Dimensions including solar modules at 30° tilt angle | | | | | | | |
|--|--------|--------|----------|-----------|--------|---------|---------|
| Number x module type | 4x PVP | 6x PVP | 8x SW150 | 10x SW150 | 8x TSM | 10x TSM | 12x TSM |
| Height (mm) | 2837 | 2837 | 2560 | 2887 | 2712 | 2660 | 3010 |
| Depth (mm) | 3426 | 3426 | 2411 | 3076 | 2555 | 3160 | 3767 |
| Width (mm) | 2060 | 2990 | 3030 | 3030 | 3040 | 3040 | 3040 |

| Weight | | | | | | | |
|----------------------|--------|---------|----------|-----------|--------|---------|---------|
| Number x module type | 4x PVP | 6x PVP | 8x SW150 | 10x SW150 | 8x TSM | 10x TSM | 12x TSM |
| | 131kg | 145.5kg | 147kg | 160kg | 182kg | 188.5kg | 195kg |

* Weight of control enclosures and solar modules is not included.

| Options | |
|--------------------------|--|
| Bird spikes | SS304 or SS304 + 140 µm epoxy powder coating. |
| Cable tray profile | HDG or HDG + 140 µm epoxy powder coating. |
| Enclosure mounting set | HDG or HDG + 140 µm epoxy powder coating. |
| Blanking plates | Sheet steel + 140 µm epoxy powder coating. |
| Ground clearance 1.3 mtr | Increased ground clearance to 1.3 mtr on the lower side of the solar module array. |

Epoxy powder coating is executed according ISO 12944 C4
Galvanization is executed according ISO 1461

This datasheet is not legally binding. Actual specifications and /or product features may vary. Eurotherm / TSS4U reserves the right to make changes to specifications without notice.
Caution: Read the safety and installation instructions before using the product. The currently valid warranty/guarantee declaration and the general delivery terms and conditions are part of this datasheet.
Further details can be found on our websites (www.eurotherm.com/www.tss4u.nl). This data sheet complies with the requirements of EN50380.

You'll keep going
when others fail