

# Technical information

The SolarKIT 



SolarKIT

## Hill & Smith Solar. SolarKIT Features



### Application

- > Ground Mount system for small-scale ground mount installations between 3 kW and 1 MW

### Design

- > Single post design
- > Designed to Euro Code EN 1991
- > Portrait: 2 x 6 or 2 x 18;  
Landscape: 3 x 7 or 3 x 3 panels
- > Interconnectable tables

### Orientation of modules

- > Portrait or landscape

### Posts

- > 5mm thickness, grade S355 steel

### Supporting structure

- > Posts: hot-dip galvanised steel
- > System: zinc-magnesium coated steel for long term corrosion resistance

### Fasteners and small parts

- > M10 and M12 HDG flanged nuts and bolts
- > Plastic spacers (u protectors)
- > Adjustment washers

### Mounting angle

- > 20°, 25°, 30° or 35°

### Distance between the ground and the first panel (bottom edge)

- > 20° = 984mm
- > 25° = 770mm
- > 30° = 564mm
- > 35° = 366mm

### Panel sizes

- > 60 cell:  
Height: 1640 to 1665mm  
With: 980 to 1005mm  
Thickness: 30/35/38/40/45  
Orientation: Portrait or Landscape
- > 72 cell:  
Height: 1950 to 1985mm  
With: 980 to 1005mm  
Thickness: 30/35/38/40/45  
Orientation: Landscape

### Foundation

- > Driven post (top hat section)

### Slope of terrain

- > Bespoke design to suit terrain

### Wind load

- > Category II
- > 25 m/s - altitude 150m (Eurocode 1991 – 1- 4)

### Snow load

- > Zone 4
- > Altitude 150m (Eurocode: 1991 – 1-3)

### Structure tolerances

- > Height adjustment:  
+/- 10 mm
- > North-South adjustment:  
+/- 10 mm
- > East-West adjustment:  
+/- 10 mm
- > Tolerance of foundation implantation:  
+/- 40 mm
- > Spacing for dilatation:  
3 to 10 mm

### Foundation tolerances

- > Height adjustment:  
+/- 30 mm
- > Adjustable North-South position:  
+/- 30 mm
- > Adjustable East-West position:  
+/- 30 mm

### Warranty

- > 15 years product warranty

### Lifetime

- > 30 years

### Lead-time

- > Approximately 5 days

### Estimated installation time

- > Approximately 40 kW / day (5-6 workers)

 All components are included in our price – no additional cost