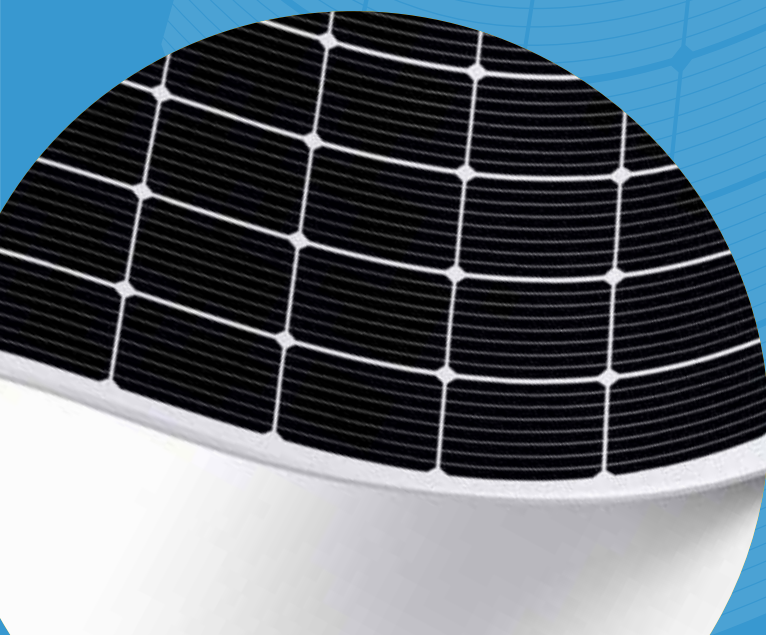


# LIGHTWEIGHT

## Flexible Solar Modules



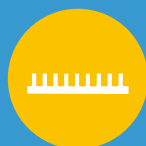
Enjoy the freedom of planning  
on curved surfaces  
with high efficiency,  
ultra-light flexible solar modules

Low load bearing roofs  
Solar car parks  
Building-integrated photovoltaics  
Creative applications  
and much more



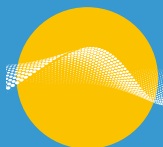
### Ultra Lightweight

Reduced weight to 2.3 kg/m<sup>2</sup> - about  
6 times less than traditional PV  
panels of same size



### 19 busbar

State of the art 19 busbar  
filament technology - improves cell  
performance, adds structural support  
and protection against cracking



### Flexible

The polymer technology allows  
Verditek modules to be installed  
directly on curved surfaces without  
additional structural support



### Warranty

Our technology is backed by a 10 year  
product guarantee and 85% after  
10 years power output warranty



### High efficiency

Use of monocrystalline top of the range  
solar cells guarantees similar energy  
output as conventional PV panels of the  
same size



### Origin

Made-in-Italy, our high-tech modern  
factory is based on the outskirts of Milan,  
making us one of the very few  
true European PV manufacturers

# LIGHTWEIGHT VSF-01



## ELECTRICAL CHARACTERISTICS AT STC<sup>1</sup>

|  |      |       |       |       |
|--|------|-------|-------|-------|
| Nominal Power (P <sub>max</sub> )        | [Wp] | 270   | 275   | 280   |
| Maximum Power Voltage (V <sub>mp</sub> ) | [V]  | 31.30 | 31.80 | 32.20 |
| Maximum Power Current (I <sub>mp</sub> ) | [A]  | 8.50  | 8.60  | 8.70  |
| Open Circuit Voltage (V <sub>oc</sub> )  | [V]  | 38.00 | 38.50 | 38.80 |
| Short Circuit Current (I <sub>sc</sub> ) | [A]  | 9.10  | 9.19  | 9.28  |
| Maximum System Voltage                   | [V]  | 1000  | 1000  | 1000  |
| Series Fuse Maximum Rating               | [A]  | 15    | 15    | 15    |

## MECHANICAL CHARACTERISTICS

|                               |  |
|-------------------------------|--|
| Solar cells                   | 60 (6 x 10) monocrystalline silicon, 156 x 156 mm (6") cells |
| Cell connection               | Filament Technology  |
| Junction Box Protection Class | IP 67  |
| Cables                        | UV resistant cables, 900/1000 mm, sec.4.0 mm <sup>2</sup>    |
| Connectors                    | MC4 compatible connectors                                    |
| Dimensions                    | 1686 mm x 996 mm x 3 mm (66.3" x 39.2" x 0.1")               |
| Weight                        | 4.0 kg (8.8 lbs)   |
| Application Class (IEC 61730) | A  |

## TEMPERATURE CHARACTERISTICS

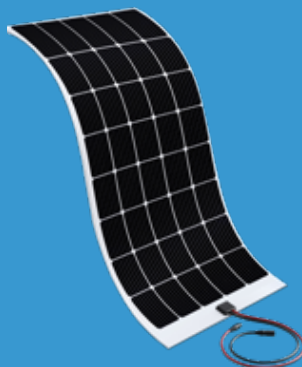
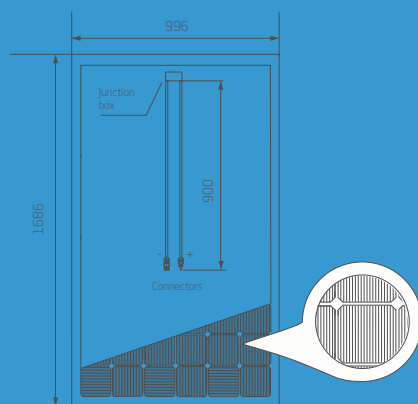
|  |                 |
|--|-----------------|
| NOCT                                   | 45°C ± 2°C      |
| P <sub>max</sub> Temp. Coefficient (γ) | -0.37 %/K       |
| V <sub>oc</sub> Temp. Coefficient (β)  | -0.27 %/K       |
| I <sub>sc</sub> Temp. Coefficient (α)  | 0.04 %/K        |
| Operating temperature                  | -40°C to + 85°C |

## WARRANTIES

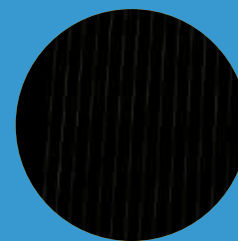
Product &  
Linear Performance Warranty  
10 years<sup>2</sup>

FLEXIBLE PLANNING

## TECHNICAL DRAWINGS



## OPTIONAL FEATURES



Black backsheet  
Bespoke size and shapes available

Dimensions in the technical drawings are expressed in mm with tolerance ±2 mm (±0.079").  
1. Standard Test Conditions (STC): Irradiance 1000 W/m<sup>2</sup>, Air Mass AM = 1.5, Cell Temperature 25°C), power measurement uncertainty within ± 3%.  
2. No less than 85% of the minimum Peak Power at STC.  
© Verditek Solar. Specifications in this datasheet are subject to change without notice.  
Product Code: VSF01M-6X10-270-280 Wp. Version 20190301-EN

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