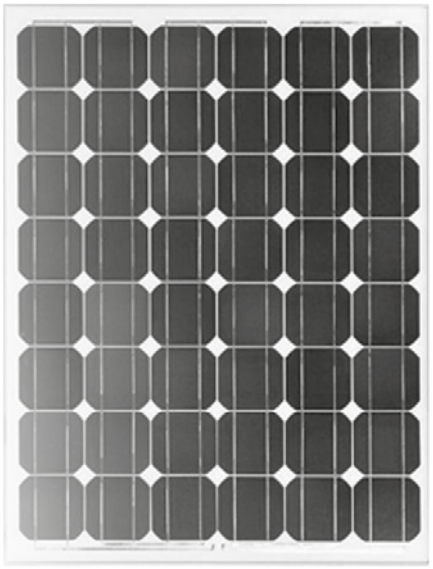
Moving the sun
light to the world

VISEL

# Monocrystalline Solar Module

## VS-M48 (125)



Modules designed for residential and utility applications, rooftop or ground mount.

The latest module manufacturing technology, high power output and highest conversion efficiency.

Anti-reflective and anti soiling surface reduces power loss from dirt and dust.

Original photovoltaic Connector MC4 whigh reliability.

The module can withstand snow loads up to 5400Pa and wind loads up to 2400Pa.

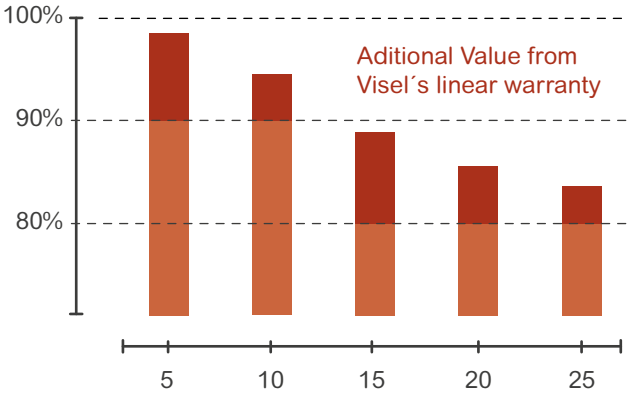
High performance in low light conditions Cloudy days, sunrises and sunsets.

IP67 junction box for long-term weather endurance.

3Wp+ Positive power tolerance up to 3W.

## Linear Performance Warranty

10 year product warranty | 25 year line power warranty

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Industry Standar

* Warning : read the manual for installation and use before handing or installing VISEL modules.

* The values, characteristics and parameters listed in this document are subject to change without notice.

## Product Certificates

MCS ISO CE PV CYCLE TÜV NORD IEC

# Monocrystalline Solar Module

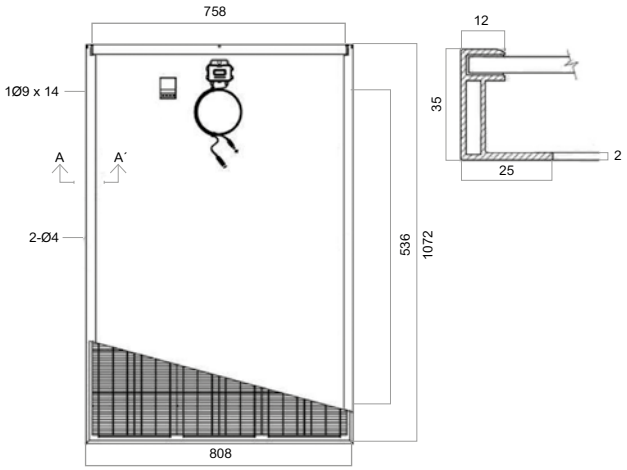
## VS-M48 (125)

## Electrical Characteristics

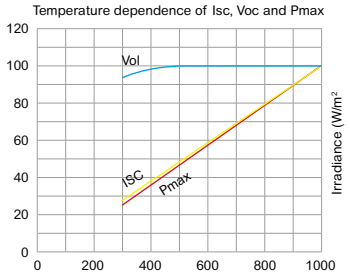
| Type | VS-125M48 | VS-130M48 | VS-135M48 | VS-140M48 |
|---|---|---|---|---|
| Max-Power Pm (W) | 125 | 130 | 135 | 140 |
| Power Tolerance (W) | 0/+3% | 0/+3% | 0/+3% | 0/+3% |
| Max-Power Voltage Vm (V) | 24.20 | 24.40 | 24.63 | 24.98 |
| Max-Power Current Im (A) | 4.96 | 5.33 | 5.48 | 5.67 |
| Short - Circuit Current Isc (A) | 5.40 | 5.75 | 5.92 | 6.09 |
| Open Circuit Voltage Voc (V) | 29.70 | 30.00 | 30.30 | 30.55 |
| Max-System Voltage (VDC) | 1000 | 1000 | 1000 | 1000 |
| Cell Efficiency (%) | 15.80 | 16.30 | 16.70 | 17.10 |
| Module Efficiency (%) | 14.40 | 15.00 | 15.60 | 15.90 |
| Max. Series Fuse (A) | 10 | 10 | 10 | 10 |
| PM Temperature Coefficients (%/°C) | -0.514 | -0.514 | -0.514 | -0.514 |
| Isc Temperature Coefficients (%/°C) | +0.0814 | +0.0814 | +0.0814 | +0.0814 |
| Voc Temperature Coefficients (%/°C) | -0.391 | -0.391 | -0.391 | -0.391 |
| NOCT Nominal Operating Cell Temperature | 45±2°C | 45±2°C | 45±2°C | 45±2°C |

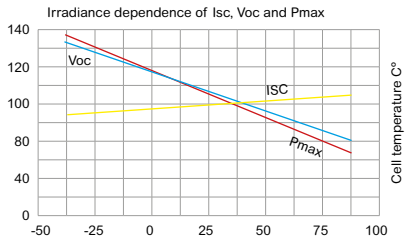
All specified parameters at STC 25 °C ambient, 1000 W/m² irradiance and AM 1.5

## Mechanical Specifications




## I-V Curve




**I-V Curves at different Irradiances (AM1.5 25°C)**

Specifications included in this datasheet are subject to change I-V Curves at without prior notice

## Mechanical Characteristics

| | |
|---|---|
| Cable Type | 4mm², TUV certified, 0.9m lenght, MC4 |
| Junction Box | IP67, 1000VCD, TUV certify 3 by-pass diodes |
| Frame | Clear anodized aluminum alloy silver color |
| Solar Cell | 48 units (6x8) in series, 125x125mm mono crystalline |
| Dimension (mm) | 1072x808x35 |
| Weight (Kg) | 10.8 |
| Glass | Low-iron temperated glass, thickness 3.2mm |

## Absolute Ratings

| | |
|---|---|
| Dielectric Insulation Voltage | 3000V |
| Operating Temperature (°C) | -40~+85 |
| Storage Temperature (°C) | -40~+85 |

## Load Rating

| | |
|---|---|
| Maximum snow load | 5400Pa |
| Maximum wind load | 2400Pa |
| Hail impact test | Iceball diameter 25mm at 23m/s |