



**Distributed &
Serviced by:**

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1. STOP MODULE Introduction

STOP MODULE (SM) features for HR solar pumps:

- Connect PV panels to HR pump with MC4 PV connectors.
- Connect earth ground wires.
- Push button start and stop.
- Float switch control.
- Protects pump from voltage spikes.

2. Safety Instructions

Sun Pumps strongly suggests to carefully read this operation manual before using and installing its products. Any operation (installation, maintenance and repair) must be carried out by trained, skilled and qualified personnel. Failure to observe and follow the instructions in this manual may result in dangerous and potentially lethal electric shock. Pay attention to all standard safety and accident prevention regulations.

	<p>Ensure the complete disconnection from the power supply pump and/or on any other device (float switch or pressure switch) connected to the SM. Disconnect the SM from the PV panels by removing the PV connectors before commencing any work.</p>
	<p>Do not remove, for any reason, the cover and the cable plate without having first disconnected the device from the power supply and having waited at least 1 minute. This allows the capacitors to bleed off their stored power.</p> <p>SM, PV panels and pumping system must be grounded properly before operation. High voltage is present even if the pump is not running.</p> <p>Tighten all 4 screws on the cover. Make sure all other fittings are tightened so the controller is weatherproofed.</p>

Avoid any shock or significant impact during transport.

Inspect the product immediately upon delivery and check for damage and/or missing parts. If either occurs, immediately notify the supplier.

Damages due to transport, incorrect installation, or improper use of the device will null and void the warranty.

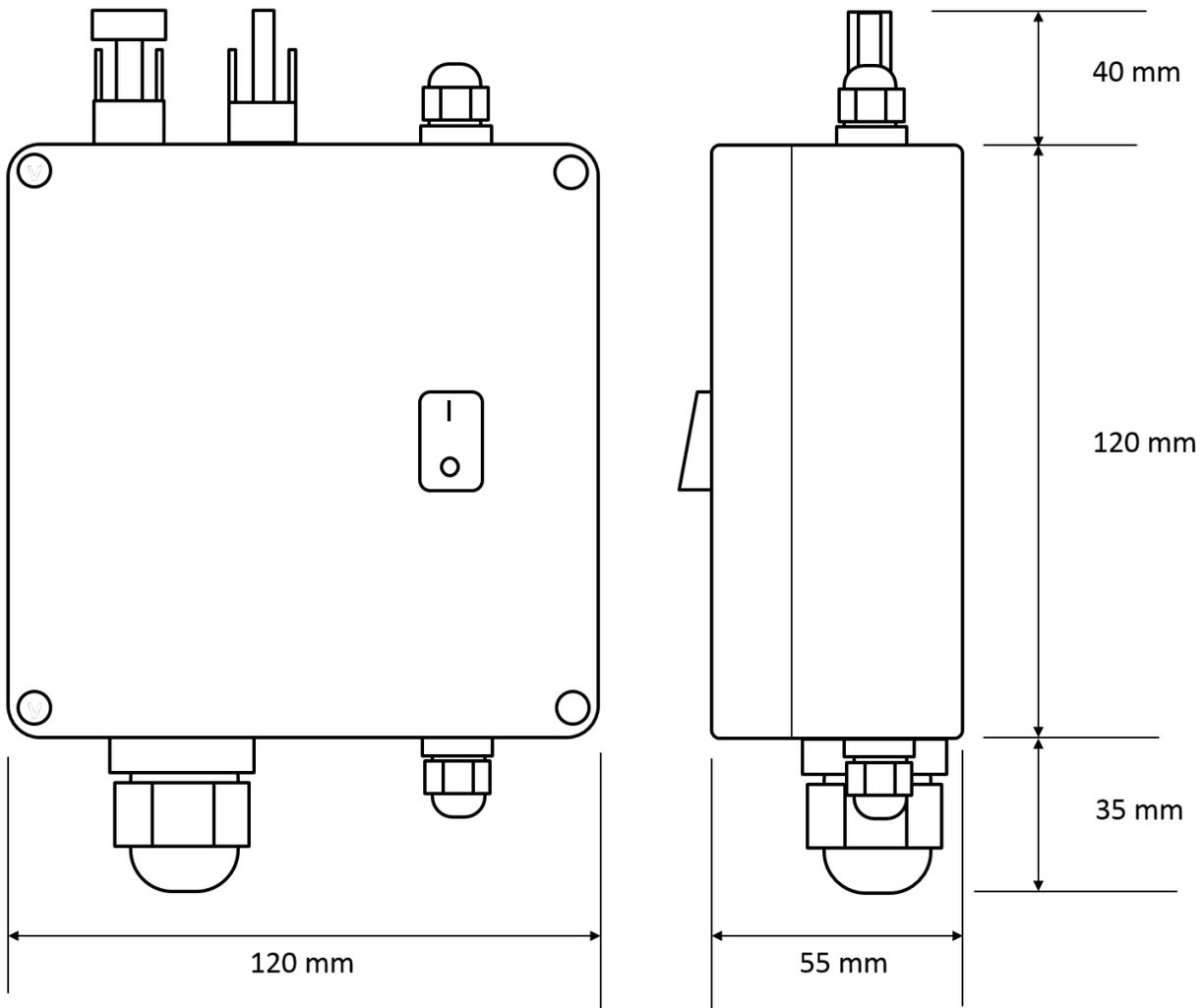
Tampering or disassembly of any component will automatically void the warranty.

The manufacturer cannot be held responsible for any damages to people and/or property due to improper use of its products.

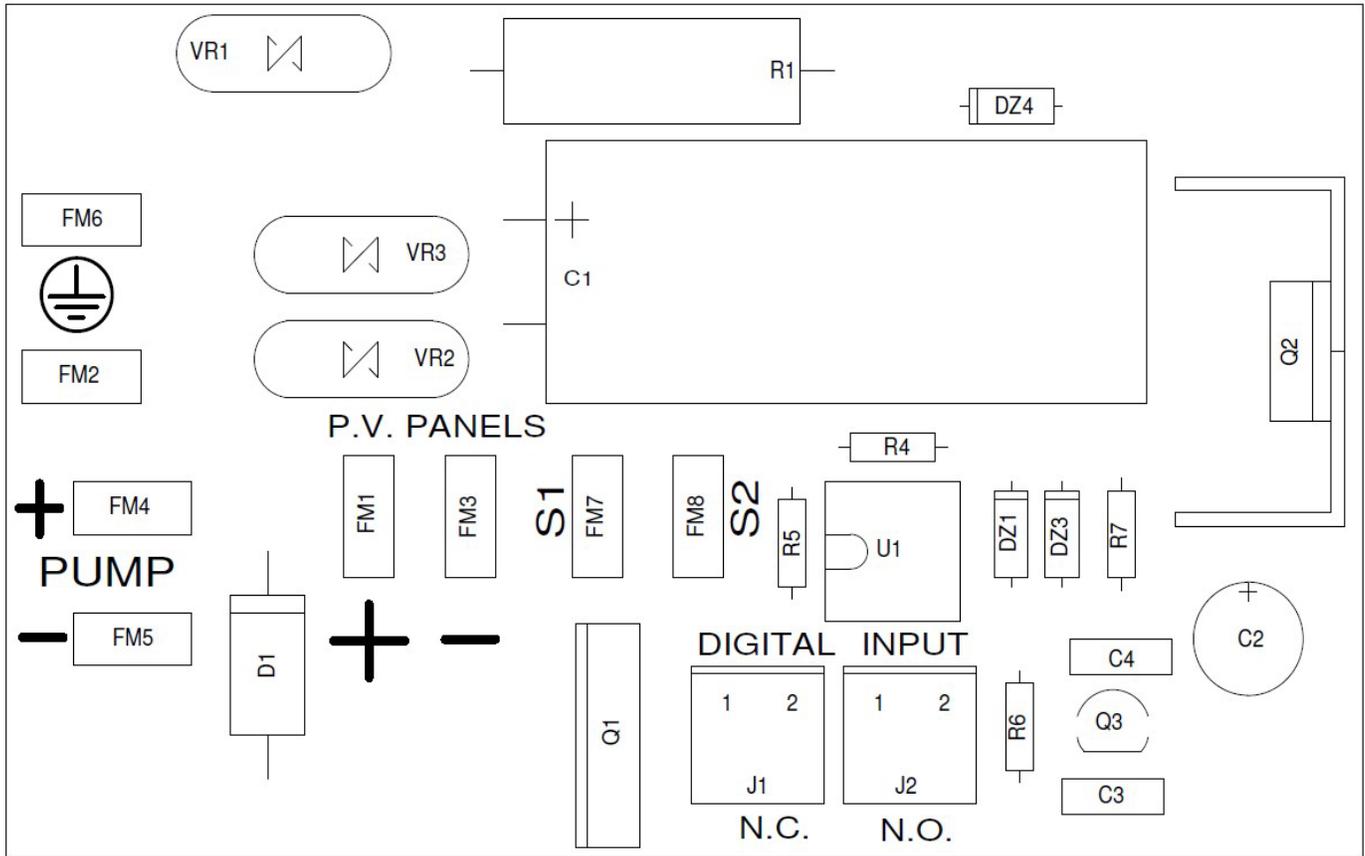
3. Technical Characteristics

- Max input voltage : 190 VDC
- Enclosure protection: IP65 (NEMA 4) *
- Max Ambient Temperature: 50 °C (122 °F)
- Certifications: CE

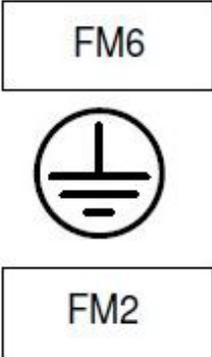
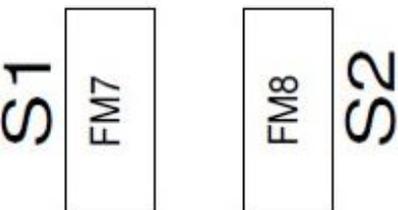
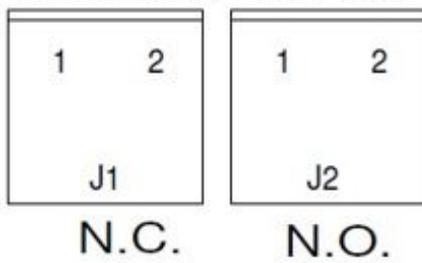
* IP65 protection grade is granted with perfect tightness of the cover screws and cable glands. It is still recommended to protect the SM from the direct exposure to weather and direct sunlight.



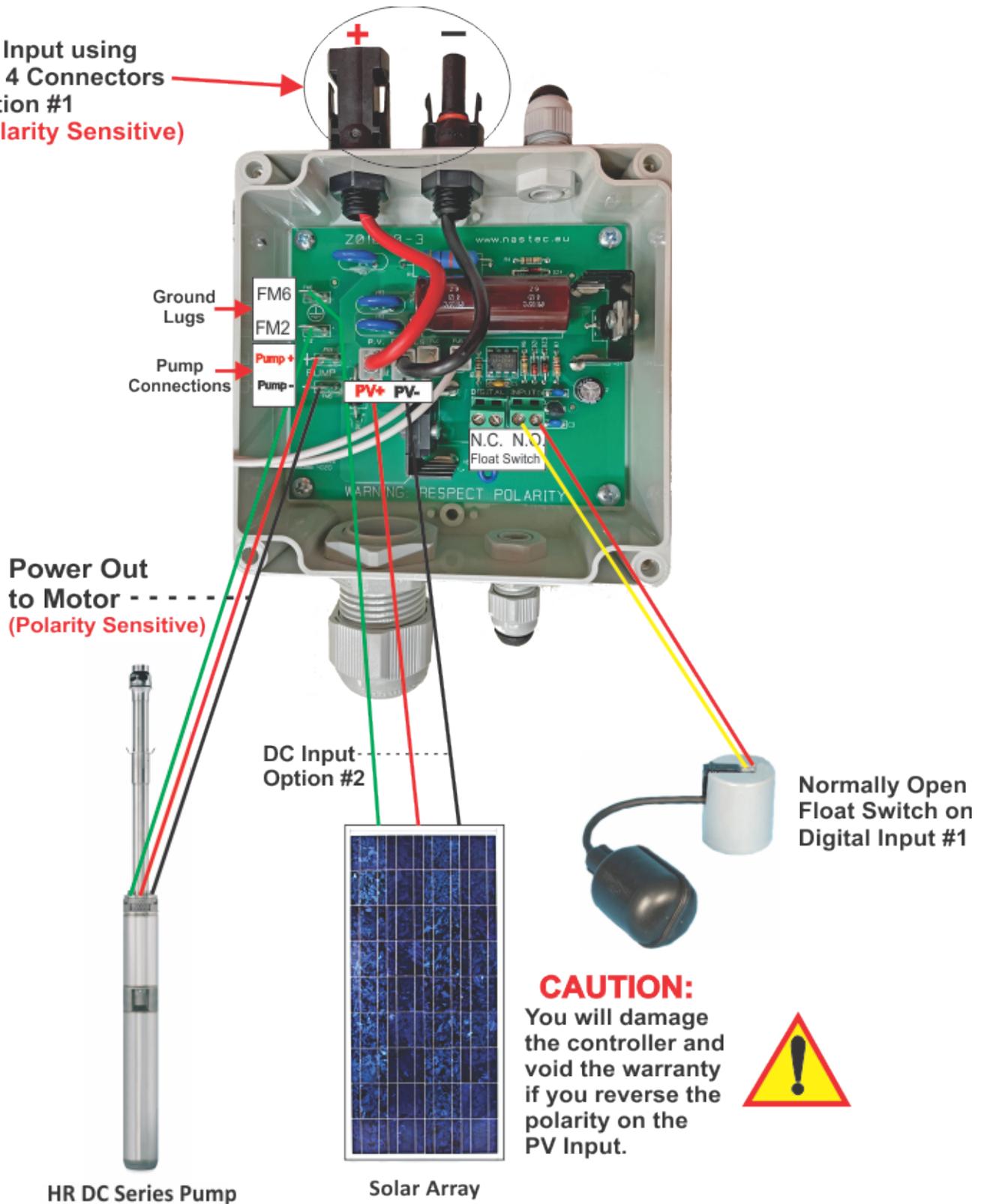
4. Electric Wiring Terminals



<p>+</p> <p>FM4</p> <p>PUMP</p> <p>-</p> <p>FM5</p>	<p>Pump output Is polarity sensitive</p> <p>WARNING: You will damage the system and void warranty if you reverse the polarity.</p>
<p>P.V. PANELS</p> <p>FM1</p> <p>FM3</p> <p>+</p> <p>-</p>	<p>PV panels input</p> <p>WARNING: Do not exceed 190 VDC</p>

 <p style="text-align: center;">FM6</p> <p style="text-align: center;"></p> <p style="text-align: center;">FM2</p>	<p>PV panels and pump protection earth ground.</p>
 <p style="text-align: center;">S1 S2</p> <p style="text-align: center;">FM7 FM8</p>	<p>Rocker switch connections.</p>
<p style="text-align: center;">DIGITAL INPUT</p>  <p style="text-align: center;">J1 J2</p> <p style="text-align: center;">N.C. N.O.</p>	<p>Digital input (Normally Closed or Normally Open) for float switch or pressure switch connection.</p> <div style="display: flex; align-items: center; margin-top: 20px;">  <p>WARNING: Use only voltage free contacts</p> </div>

4.1 Electric Wiring Diagram



CAUTION:
You will damage the controller and void the warranty if you reverse the polarity on the PV Input.

