PS2-600 CS-F4-3
Solar Surface Pump System

System Overview
Head: max. 25 m
Flow rate: max. 8.9 m³/h

Technical Data

Controller PS2-600
- Controlling and monitoring
- Control inputs for dry running protection, remote control etc.
- Protected against reverse polarity, overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)
- Battery operation: Integrated low voltage disconnect

Power: max. 0.70 kW
Input voltage: max. 150 V
Optimum Vmp**: > 68 V
Motor current: max. 13 A
Efficiency: max. 98 %
Ambient temp.: -40...50 °C
Enclosure class: IP68

Motor ECDRIVE 600 CS-F
- Maintenance-free brushless DC motor
- Premium materials, stainless steel: AL/AISI 304
Rated power: 0.7 kW
Efficiency: max. 92 %
Motor speed: 900...3 300 rpm
Insulation class: F
Enclosure class: IPX4

Motor current max. 13 A
Efficiency max. 98 %
Ambient temp. -40...50 °C
Enclosure class IP68

Pump End PE CS-F4-3
- Premium materials
- Optional: dry running protection
- Centrifugal pump

Water temperature: max. 70 °C
Suction head: acc. to COMPASS sizing

Standards
2006/42/EC, 2004/108/EC, 2006/95/EC
IEC/EN 61702:1995

**Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature

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All specifications and information are given with good intent, errors are possible and products may be subject to change without notice. Pictures may differ from actual products depending on local market requirements and regulations.
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Pump Chart

Vmp* > 68 V

The NPSH (Net Positive Suction Head) is NOT the operating suction head. To calculate the operating suction head please refer to the installation manual.

*Nmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature
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Dimensions and Weights

<table>
<thead>
<tr>
<th>Controller</th>
<th>Pump Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1 = 352 mm</td>
<td>A = 120 mm</td>
</tr>
<tr>
<td>H2 = 333 mm</td>
<td>B = 110 mm</td>
</tr>
<tr>
<td>W1 = 207 mm</td>
<td>C = 200 mm</td>
</tr>
<tr>
<td>W2 = 170 mm</td>
<td>D = 250 mm</td>
</tr>
<tr>
<td>W3 = 164 mm</td>
<td>E = 150 mm</td>
</tr>
<tr>
<td>D1 = 124 mm</td>
<td>F = 100 mm</td>
</tr>
</tbody>
</table>

Controller

W2
W1
H2
H1
D1

Pump Unit

A = 120 mm
B = 110 mm
C = 200 mm
D = 250 mm
E = 150 mm
F = 100 mm
G = 75 mm
H = 303 mm
I = G1/2"
J = 210 mm
K = 180 mm
L = 32 mm
M = 100 mm
N = 18 mm
O = 32 mm
P = 13 mm

Net weight

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Controller</td>
<td>5.5 kg</td>
</tr>
<tr>
<td>Pump Unit</td>
<td>17 kg</td>
</tr>
<tr>
<td>Motor</td>
<td>7.5 kg</td>
</tr>
<tr>
<td>Pump End</td>
<td>9.0 kg</td>
</tr>
</tbody>
</table>