

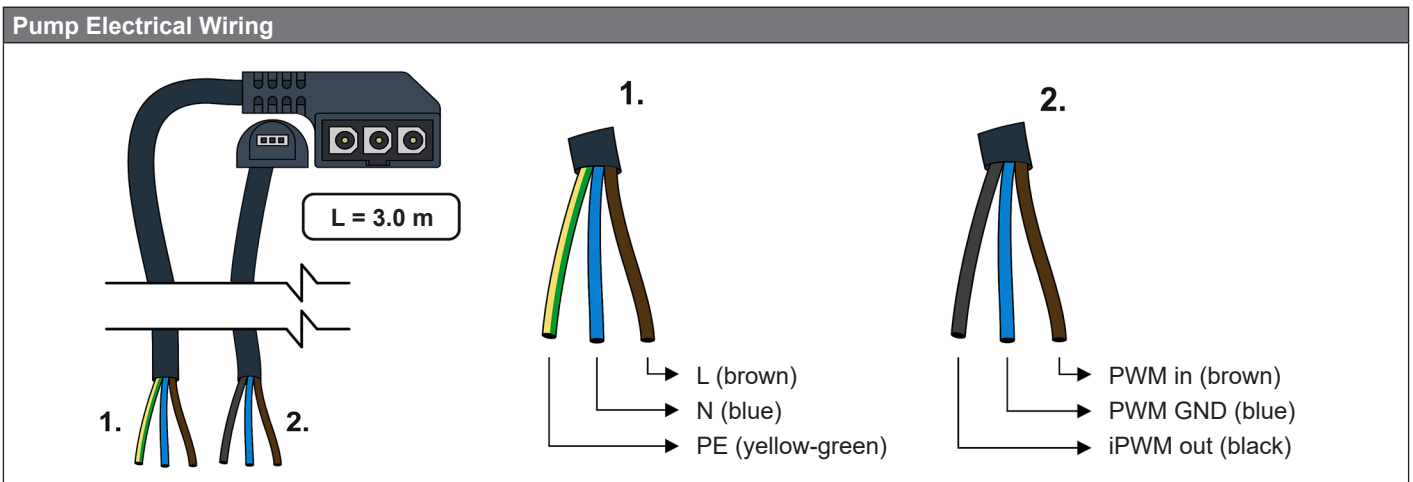
## DATA SHEET

### CSE1 SOL W P Solar Pump Station



| Main Features |   |
|---------------|---|
| Application   | Solar Pump Station involves all necessary components for everyday efficient operation of a solar thermal system.  |
| Description   | Consists of a Para ST 25/7-50/iPWM2 circulation pump, a check valve, a safety valve, two ball valves, flow rate indicator, pressure gauge, thermometers, fill-, drain- and top-up valves for a solar thermal system with connection G 3/4" M, outlet for an expansion vessel with connection G 3/4" M, mounting kit, insulation. The pump shall be controlled by PWM signal for solar thermal systems (with no PWM signal the pump stops). An iPWM signal can be read from the pump for current flow rate measurements. |
| Installation  | On a tank or on the wall.   |
| Working fluid | Water-glycol mixture (max. 1:1).  |
| Code          | <b>19981</b> – connection G 3/4" M, flow 2–12 l/min<br><b>19991</b> – connection G 1" M, flow 8–28 l/min<br><b>20568</b> – connection Cu 22 mm, flow 2–12 l/min   |

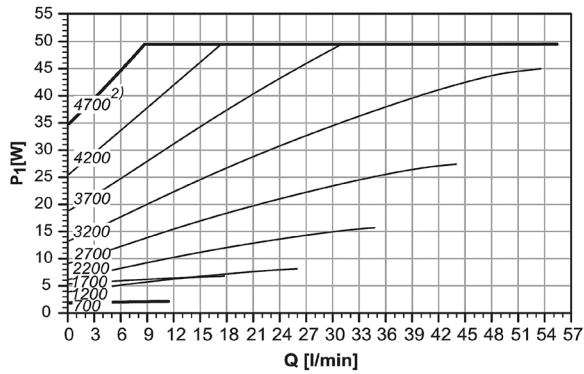
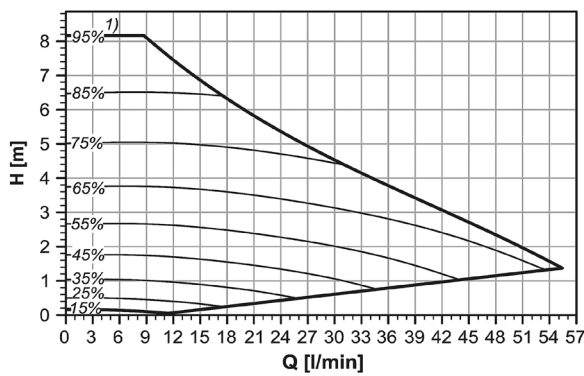
| Pump Station Data                           |                               |
|---|-------------------------------|
| Max. fluid working temperature              | 110 °C                        |
| Max. working pressure                       | 6 bar                         |
| Min. system pressure                        | 1.3 bar with the pump stopped |
| Ambient temperature                         | 5 to 40 °C                    |
| Max. relative humidity                      | 85 % at 25 °C                 |
| Power supply                                | 230 V, 50 Hz                  |
| Insulation material                         | EPP RG 60 g/l                 |
| IP rating                                   | IP20                          |
| Overall dimensions (Width x Height x Depth) | 195 x 510 x 155 mm            |
| Total weight                                | 4.4 kg                        |



# DATA SHEET

## CSE1 SOL W P Solar Pump Station

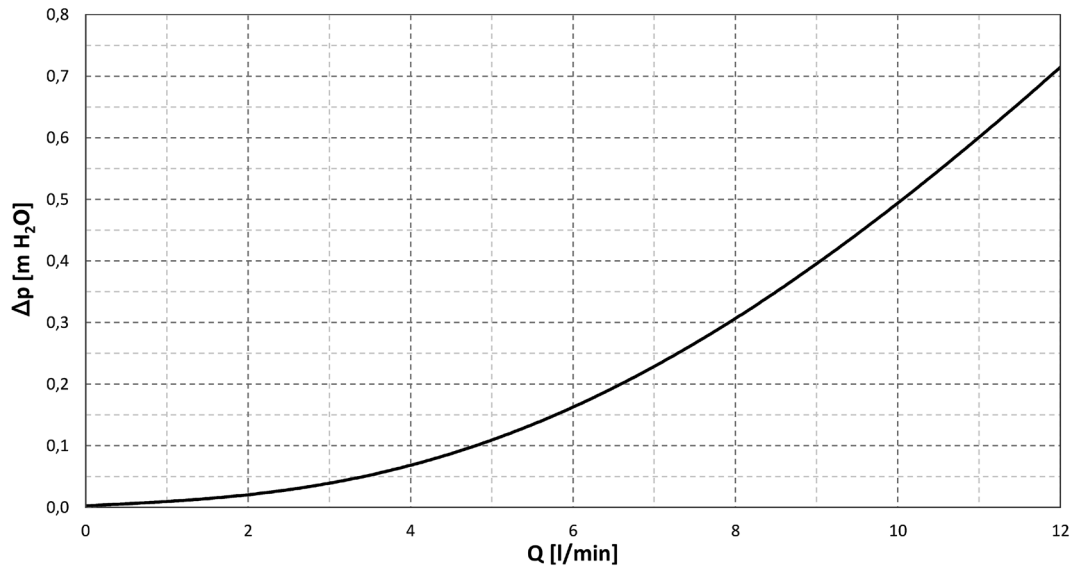
### Pump Performance curves



NOTE:  
1) PWM signal value in %,  
2) speed in rpm

### Pressure drop graph

Connections G 3/4" M – code **19981** and Cu 22 mm – code **20568**



Connections G 1" M – code **19991**

