

PS1800 HR-03H

Solar Submersible Pump System for 4" wells

System Overview

max. 240 m Flow rate max. 0.43 m³/h

PS DataModule - Integrated Data Logger and advanced pump management features. Allows for simple system configuration, real-time and stored data plus provides Bluetooth communication to PumpScanner Android ™ App and PS Communicator.

Technical Data

Controller PS1800

- 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. 1.8 kW max. 200 V Input voltage Optimum Vmp** > 102 V Nominal voltage (battery operation) 96 V Motor current max. 14 A Efficiency max. 98 % -30...50 °C Ambient temp. Enclosure class IP65

Motor ECDRIVE 1200-HR / ECDRIVE 1800-HR

- · Maintenance-free brushless DC motor
- Water filled
- Premium materials, stainless steel: AISI 304/316
- No electronics in the motor

Rated power 1.7 kW max. 92 % Efficiency 900...3,300 rpm Motor speed Insulation class Enclosure class **IP68** Submersion max. 150 m

Pump End PE HR-03H***

- Non-return valve
- Premium materials, stainless steel: AISI 304/316
- Optional: dry running protection
- Helical rotor pump

Pump Unit PU1800 HR-03H (Motor, Pump End)

Borehole diameter min. 4,0 in Water temperature max. 50 °C

Standards



2006/42/EC, 2004/108/EC, 2006/95/EC



IEC/EN 61010-1:2010, IEC 62103:2003, IEC/EN 60034-1:2010, Regular Production Surveillance IEC/EN 60335-2-41:2003+A1+A2, IEC/EN 60335-1:2012, EN 62233:2008 IEC/EN 61000-6-4:2007+A1, IEC/EN 61000-6-2:2005

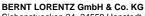
IEC/EN 61702:1995, IEC/EN 62253 Ed.1

The logos shown reflect the approvals that have been granted for this product family. Products are ordered and supplied with the approvals specific to the market

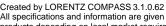
* PS DataModule is included in all PSk2 controllers and any PS controllers with -D in their description. -D variants should be ordered if there is a potential need to use the PS DataModule features in the future as this is not a retrofit option.

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





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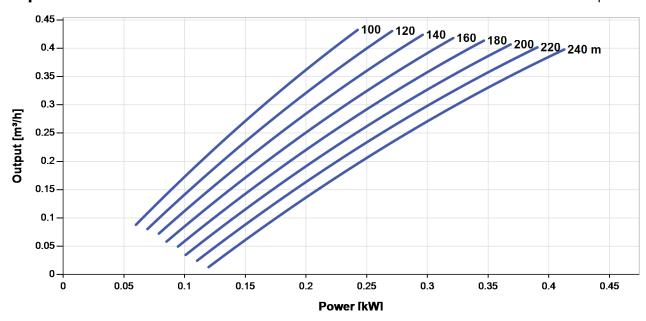
^{***}Specify temperature range on order



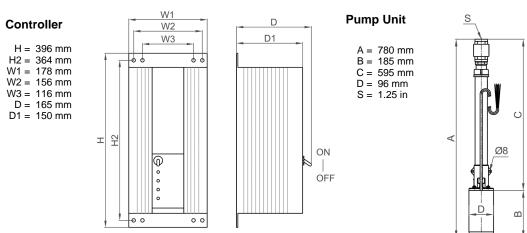
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Pump Chart Vmp* > 102 V



Dimensions and Weights



	inet weight
Controller	4.5 kg
Pump Unit	11 kg
Motor	7.0 kg
Pump End	4.2 kg

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

