Pioneering for You

Product brochure

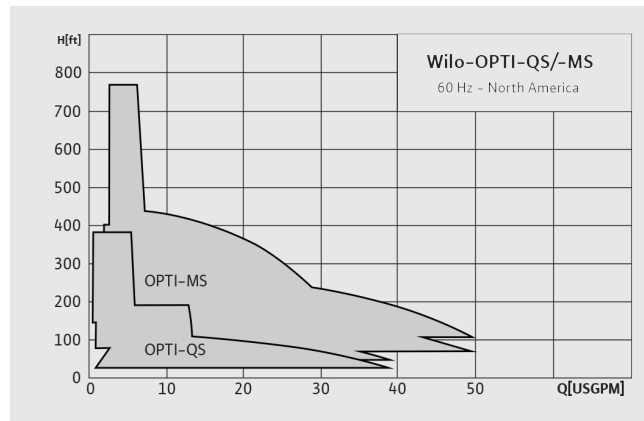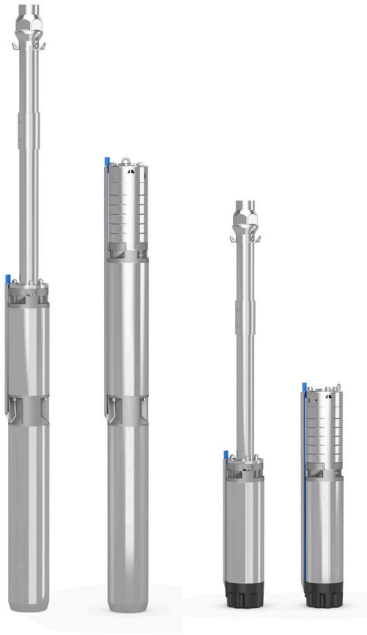# Wilo–OPTI MS/QS

Autonomous, optimized water supply using solar power

New series

Wilo-OPTI MS/QS
Solar–powered submersible pumps

H[ft]

Wilo-OPTI-QS/-MS
60 Hz – North America

OPTI-MS

OPTI-QS

Q[USGPM]

Application
→ Irrigation
→ Municipal
→ Pressure Boosting
→ Agriculture
→ Industrial Process

Features and Benefits
→ AISI 304 SS construction
→ Helical rotor models have 316SS rotor
→ Easy assembly/disassembly
→ Permanent Magnet Motor
→ Integrated Controls
→ MPPT Motor Tracking

Technical Data
→ OPTI-QS Electrical Connection: 70–190 VDC
→ OPTI-MS Electrical Connection: 90–340 VDC or 90–265 VAC
→ Max Liquid Temp: 92°F
→ Max Immersion Depth: 500'
→ Protection Class: IP 68
→ Kingsbury thrust bearing

Operating voltage	90–340 VDC/90–265 VAC	70–190 VDC
Features of optional external control module	**Wilo-MS Control**	**Wilo-QS Stop Module**
Stopping and starting the pump	✓	✓
Connection of a switch (e.g. float switch)	✓	✓
LCD	✓	
Remote monitoring and control functions	✓	
Monitoring electric parameters	✓	
Record and store alarms	✓	
Connect sensors (e,g. volume flow, pressure)	✓	
Use as substitute for DC switch or DC switch box with protection		✓
Additional over voltage protection		✓
Protection class	IP55	IP65

Features

Wilo-Opti MS
As progressive cavity pump
or centrifugal pump

Wilo-OPTI QS
As progressive cavity pump
or centrifugal pump

Remote monitoring and
remote control

90 – 340 VDC/90 – 265 VAC
operating voltage

Signal cable input for switches or
communication with Wilo-MS
Control Module

Optional use with AC power sources

70 – 190 VDC operating voltage

Wilo-QS Stop Module as external
accessory

Water level sensor in motor cable for dry
run protection

Dynamic MPPT

Integrated protective equipment

Integrated frequency converter

Dynamic MPPT
If there is a change in the exposure of the solar
modules, the maximum performance point (MPP),
current and performance are offset in relation to the
voltage. The MPPT algorithm identifies the ideal ratio
between electric current and voltage to consequently
dynamically actuate MPP. As a result, the available
exposure to sunlight is optimally converted into
electrical power to maximize the water supply.
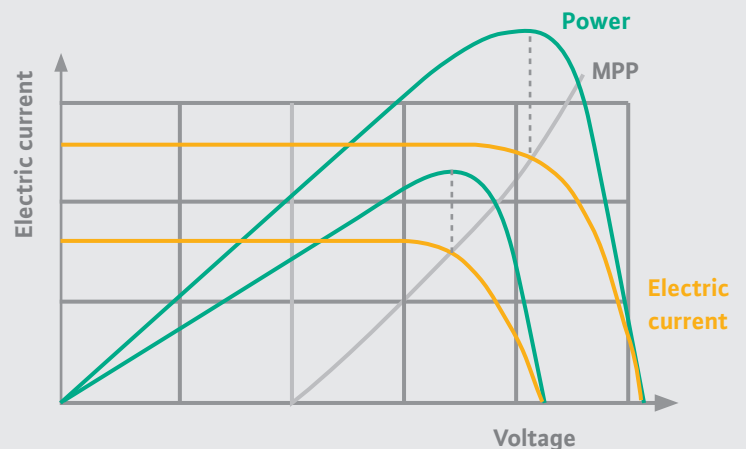
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