

PRODUCT CATALOGUE

SOLAR PUMP INVERTER

2026



The EURONET Solar Pump Inverter range delivers reliable solar-powered water pumping across six models from 2.2 kW to 18.5 kW, covering single-phase and three-phase installations for agricultural, residential, and industrial applications. Featuring built-in MPPT technology with over 99% tracking efficiency, advanced SVC motor control, and optional PV/Grid automatic switching, the range is engineered for dependable operation in off-grid and harsh environments including deep-well applications to 200 metres. Conformal coating, RS-485 Modbus communication, IEC 61800-5-1 safety compliance, and CE Marking make the series suitable for demanding deployments across the Middle East, Africa, and Central Asia.

POWERING PROGRESS ACROSS THE GLOBE

3000+
Distributors

15+
Industries

60+
Countries & Region

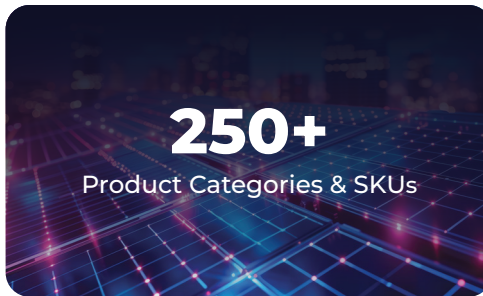
24/7 Intelligent Assistance

Sales Support and
After Sales Support



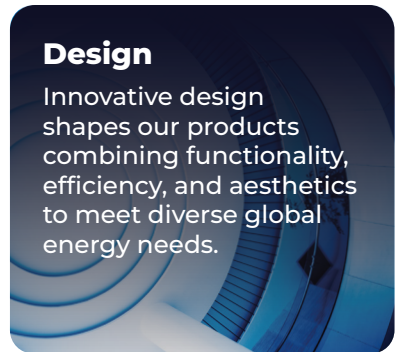
250+

Product Categories & SKUs



Design

Innovative design
shapes our products
combining functionality,
efficiency, and aesthetics
to meet diverse global
energy needs.



Globally Certified Excellence

Certified to meet
global standards



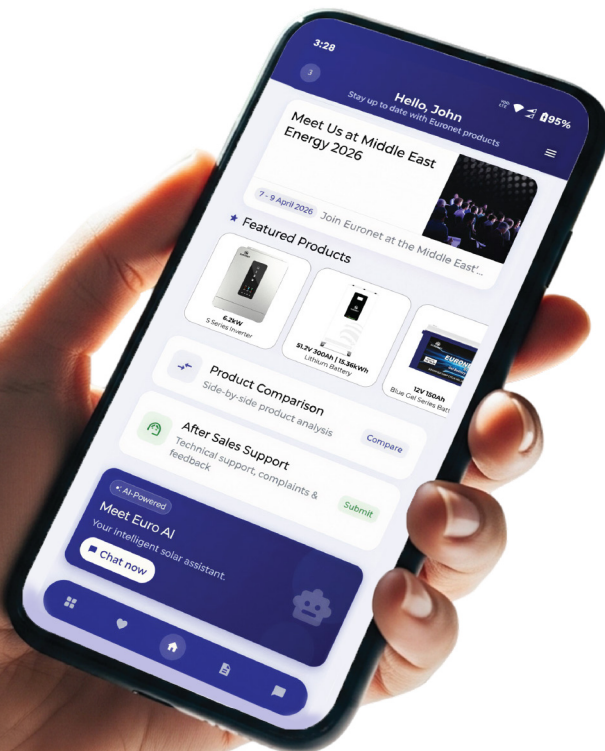
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Complete digital
ecosystem



20+

Years of Excellence



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Solar Pump Inverter Product Catalogue 2026

High-efficiency solar water pumping solutions for every application

Solar Pump Inverter

- E-SPI2.2K1P — 2.2KW / 3HP	1
- E-SPI5.5K3P — 5.5KW / 7.5HP	2
- E-SPI7.5K3P — 7.5KW / 10HP	3
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2.2KW PUMP INVERTER / 3HP

Single-phase 220V Solar Pump Inverter with MPPT and SVC for small-scale irrigation



MODEL
E-SPI2.2K1P

MOTOR POWER
2.2KW / 3HP

NOMINAL CAPACITY
4 KVA

INPUT
1PH 220V AC /
450VDC PV

OUTPUT CURRENT
9.6A

NET WEIGHT
1 KG

OVERVIEW

The Euronet E-SPI2.2K1P is a 2.2KW single-phase Solar Pump Inverter for agricultural irrigation, household water supply, and off-grid rural applications. It accepts 220V AC or up to 450VDC PV input, with built-in MPPT at over 99% efficiency and SVC delivering 150% starting torque at 0.5Hz for deep-well pump startup to 200 metres.

KEY FEATURES

99%+ MPPT Efficiency

Maximizes solar energy extraction across 350–250VDC, even under variable sunlight.

150% Starting Torque

Delivers high low-frequency torque (0.5Hz) for reliable deep-well pump startups under heavy loads.

200m Deep Well Rating

Engineered for deep-well applications with cloud-shade adaptation to maintain steady water flow.

PV / Grid Auto-Switch

Integrates with an optional external kit for automatic solar-to-grid switching and 7/24 water supply.

Conformal Coating

Standard internal board protection shields components against dust, humidity, and harsh field environments.

RS-485 Modbus

Built-in protocol enables seamless remote monitoring, parameter management, and system integration.

TECHNICAL NOTE

Model E-SPI2.2K1P. Motor: 2.2KW/3HP. Nominal Capacity: 4KVA. Input: AC 1PH 220V(–15%) to 240V(+10%) / 450VDC PV. VOC: 360–430VDC. MPPT: 250–350VDC. Start-up: 160–450VDC (Adjustable). Input Current: 23A. Output Current: 9.6A. Dimensions (H×W×D): 197.5×99×152mm. Weight: 1kg. Package: 238×141×207mm. Cable: RST/UVW 4mm² / PE 4mm² / PV 4mm². Set Screw: M4, 1.3–1.5Nm. Control: SVC / V/F. Starting Torque: 0.5Hz/150% (SVC). Overload: 150%/60s; 170%/12s; 190%/1.5s. Output Frequency: 0.1–500Hz. Communication: RS-485 Modbus. Temp: –10°C to 50°C. Storage: –20°C to 60°C. Humidity: <95% RH. Safety: IEC 61800-5-1. EMC: IEC 61800-3(C3). Specifications subject to change without notice.

5.5KW PUMP INVERTER / 7.5HP

Three-phase 380V Solar Pump Inverter with MPPT and SVC for medium-scale.



MODEL
E-SPI5.5K3P

MOTOR POWER
5.5KW / 7.5HP

NOMINAL CAPACITY
11 KVA

INPUT
**3PH 380V AC /
900VDC PV**

OUTPUT CURRENT
13A

NET WEIGHT
1.5 KG

OVERVIEW

The Euronet E-SPI5.5K3P is a 5.5KW three-phase Solar Pump Inverter for medium-scale agricultural irrigation and community water supply. It accepts 380V three-phase AC or up to 900VDC PV input with MPPT across 450–600VDC, and SVC control providing 150% starting torque at 0.5Hz for deep-well installations.

KEY FEATURES

99%+ MPPT Efficiency

Tracks the 600–450VDC MPP at >99% efficiency to maximize solar harvesting in variable sunlight.

150% Starting Torque

Delivers 150% torque at 0.5Hz for reliable startup of medium, surface, and deep-well pumps.

900VDC PV Input

Supports up to 900VDC open-circuit input (750–550VDC VOC) for standard commercial three-phase arrays.

Cloud Shade Adaptation

Automatically adjusts to rapid irradiance drops to prevent sudden system shutdowns.

Compact Enclosure

Uses a space-saving 197.5×152×99mm housing—the smallest three-phase footprint in the lineup.

RS-485 Modbus

Built-in protocol supports remote monitoring, parameter management, and SCADA or myEuronet integration.

TECHNICAL NOTE

Model E-SPI5.5K3P. Motor: 5.5KW/7.5HP. Nominal Capacity: 11KVA. Input: AC 3PH 380V(–15%) to 440V(+10%) / 900VDC PV. VOC: 550–750VDC. MPPT: 450–600VDC. Start-up: 300–900VDC (Adjustable). Input Current: 13.9A. Output Current: 13A. Dimensions (H×W×D): 197.5×99×152mm. Weight: 1.5kg. Package: 238×141×207mm. Cable: RST/UVW 4mm² / PE 4mm² / PV 4mm². Set Screw: M4, 1.3–1.5Nm. Control: SVC / V/F. Starting Torque: 0.5Hz/150% (SVC). Overload: 150%/60s; 170%/12s; 190%/1.5s. Output Frequency: 0.1–500Hz. Communication: RS-485 Modbus. Temp: –10°C to 50°C. Storage: –20°C to 60°C. Humidity: <95% RH. Safety: IEC 61800-5-1. EMC: IEC 61800-3(C3). Specifications subject to change without notice.

7.5KW PUMP INVERTER / 10HP

Three-phase 380V Solar Pump Inverter for mid-large agricultural irrigation.



MODEL
E-SPI7.5K3P

MOTOR POWER
7.5KW / 10HP

NOMINAL CAPACITY
15 KVA

INPUT
**3PH 380V AC /
900VDC PV**

OUTPUT CURRENT
17A

NET WEIGHT
3.5 KG

OVERVIEW

The Euronet E-SPI7.5K3P is a 7.5KW three-phase Solar Pump Inverter for mid-to-large agricultural irrigation, livestock farms, and industrial water supply. It accepts 380V AC or up to 900VDC PV input with 450–600VDC MPPT, and SVC delivering 150% starting torque at 0.5Hz for deep-well pump applications.

KEY FEATURES

15KVA / 17A Output

Powers 7.5KW/10HP motor loads with a 17A nominal capacity for reliable mid-to-large pump operation.

900VDC PV Input

Accepts up to 900VDC (750–550VDC VOC / 600–450VDC MPPT) for efficient three-phase solar array operation.

%150 SVC Starting Torque

Delivers %150 torque at 0.5Hz for smooth, grid-independent startup of deep-well and high-head pumps.

Stepped-Up Enclosure

Features an expanded 245×180.5×124mm housing to optimize thermal management during sustained 7.5KW operation.

200m Deep Well Design

Engineered for deep-well submersibles up to 200 meters with cloud-shade adaptation to maintain flow.

Programmable I/O

Includes 5 digital inputs, 1 analog input, 1 relay, and 1 analog output for easy integration with level sensors & flow switches.

TECHNICAL NOTE

Model E-SPI7.5K3P. Motor: 7.5KW/10HP. Nominal Capacity: 15KVA. Input: AC 3PH 380V(–15%) to 440V(+10%) / 900VDC PV. VOC: 550–750VDC. MPPT: 450–600VDC. Start-up: 300–900VDC (Adjustable). Input Current: 18.9A. Output Current: 17A. Dimensions (H×W×D): 245×124×180.5mm. Weight: 3.5kg. Package: 288×184×221mm. Cable: RST/UVW 4mm² / PE 4mm² / PV 4mm². Set Screw: M4, 1.3–1.5Nm. Control: SVC / V/F. Starting Torque: 0.5Hz/150% (SVC). Overload: 150%/60s; 170%/12s; 190%/1.5s. Output Frequency: 0.1–500Hz. Communication: RS-485 Modbus. Temp: –10°C to 50°C. Storage: –20°C to 60°C. Humidity: <95% RH. Safety: IEC 61800-5-1. EMC: IEC 61800-3(C3). Specifications subject to change without notice.

11KW PUMP INVERTER / 15HP

Three-phase 380V 11KW Solar Pump Inverter for large-scale agricultural irrigation.



MODEL
E-SPI11K3P

MOTOR POWER
11KW / 15HP

NOMINAL CAPACITY
30 KVA

INPUT
**3PH 380V AC /
900VDC PV**

OUTPUT CURRENT
25A

NET WEIGHT
3.5 KG

OVERVIEW

The Euronet E-SPI11K3P is an 11KW three-phase Solar Pump Inverter for large agricultural irrigation systems, commercial water infrastructure, and high-demand off-grid deployments. With 30KVA nominal capacity and 25A output, it drives 15HP motors from a 900VDC PV array or 380V three-phase grid, with full SVC and V/F motor control.

KEY FEATURES

30KVA / 25A Output

Powers 11KW/15HP motors with a 25A nominal capacity for large agricultural and commercial pump systems.

6mm² Cable Rating

Terminals support up to 6mm² wiring with M5 set screws (2.0–2.5Nm) for safe, continuous 11KW operation.

SVC 150% Starting Torque

Delivers 150% torque at 0.5Hz to reliably start large submersible pumps under heavy loads in deep wells.

Stall & Overload Prevention

Automatically limits current and voltage to prevent nuisance tripping during heavy irrigation loads.

Rapid Current Limiting

Reduces over-current fault risks to keep the VFD operating smoothly during sudden pump startup transients.

Built-in PID

Simplifies closed-loop pressure or flow control, eliminating the need for external system controllers.

TECHNICAL NOTE

Model E-SPI11K3P. Motor: 11KW/15HP. Nominal Capacity: 30KVA. Input: AC 3PH 380V(–15%) to 440V(+10%) / 900VDC PV. VOC: 550–750VDC. MPPT: 450–600VDC. Start-up: 300–900VDC (Adjustable). Input Current: 27.8A. Output Current: 25A. Dimensions (H×W×D): 245×124×180.5mm. Weight: 3.5kg. Package: 288×184×221mm. Cable: RST/UVW 6mm² / PE 6mm² / PV 6mm². Set Screw: M5, 2.0–2.5Nm. Control: SVC / V/F. Starting Torque: 0.5Hz/150% (SVC). Overload: 150%/60s; 170%/12s; 190%/1.5s. Output Frequency: 0.1–500Hz. Communication: RS-485 Modbus. Temp: –10°C to 50°C. Storage: –20°C to 60°C. Noise: 65dBA max. Safety: IEC 61800-5-1. EMC: IEC 61800-3(C3). Specifications subject to change without notice.

15KW PUMP INVERTER / 20HP

Three-phase 380V 15KW Solar Pump Inverter for high-capacity agricultural irrigation.



MODEL
E-SPI15K3P

MOTOR POWER
15KW / 20HP

NOMINAL CAPACITY
37 KVA

INPUT
**3PH 380V AC /
900VDC PV**

OUTPUT CURRENT
32A

NET WEIGHT
5.5 KG

OVERVIEW

The Euronet E-SPI15K3P is a 15KW three-phase Solar Pump Inverter for high-capacity agricultural irrigation and industrial water systems. With 37KVA nominal capacity and 32A output, it is housed in the larger 165×195×310mm enclosure shared with the 18.5KW model, accommodating the thermal requirements of sustained 20HP operation.

KEY FEATURES

37KVA / 32A Output

Powers 15KW/20HP motors with a 32A nominal capacity for high-capacity irrigation and industrial pump systems.

10mm² Cable Rating

Terminals support up to 10mm² wiring with M5 set screws (2.0–2.5Nm) for safe, continuous 15KW operation.

Deceleration-to-Stop

Uses motor feedback energy during power loss to decelerate the pump smoothly, preventing mechanical damage.

Timer Control

Features a built-in 0.0–650.0 minute timer for automated irrigation scheduling and water storage management.

AVR — Output Stabilisation

Automatic Voltage Regulation stabilizes output during grid fluctuations to protect the connected motor.

Full Protective Suite

Includes short-circuit, phase loss, overcurrent, overvoltage, overheat, overload, underload, and weak-light protection.

TECHNICAL NOTE

Model E-SPI15K3P. Motor: 15KW/20HP. Nominal Capacity: 37KVA. Input: AC 3PH 380V(–15%) to 440V(+10%) / 900VDC PV. VOC: 550–750VDC. MPPT: 450–600VDC. Start-up: 300–900VDC (Adjustable). Input Current: 37.9A. Output Current: 32A. Dimensions (H×W×D): 310×165×195mm. Weight: 5.5kg. Package: 400×240×275mm. Cable: RST/UVW 10mm² / PE 10mm² / PV 10mm². Set Screw: M5, 2.0–2.5Nm. Control: SVC / V/F. Starting Torque: 0.5Hz/150% (SVC). Overload: 150%/60s; 170%/12s; 190%/1.5s. Output Frequency: 0.1–500Hz. Communication: RS-485 Modbus. Temp: –10°C to 50°C. Storage: –20°C to 60°C. Noise: 65dBA max. Safety: IEC 61800-5-1. EMC: IEC 61800-3(C3). Specifications subject to change without notice.

18.5KW PUMP INVERTER / 25HP

Highest-capacity three-phase 380V Solar Pump Inverter for large-scale agricultural.



MODEL
E-SPI18.5K3P

MOTOR POWER
18.5KW / 25HP

NOMINAL CAPACITY
44 KVA

INPUT
**3PH 380V AC /
900VDC PV**

OUTPUT CURRENT
37A

NET WEIGHT
5.5 KG

OVERVIEW

The Euronet E-SPI18.5K3P is the highest-capacity model in the range, delivering 18.5KW/25HP with 44KVA nominal capacity and 37A output. It shares the 165×195×310mm enclosure with the 15KW model and is designed for large agricultural estates, industrial water treatment, and major off-grid community infrastructure.

KEY FEATURES

44KVA / 37A Output

Powers 18.5KW/25HP motors for large-scale installations with zero derating at rated load.

900VDC PV Input

Accepts up to 900VDC (750–550VDC VOC / 600–450VDC MPPT) for commercial three-phase string arrays.

SVC %150 Starting Torque

Delivers %150 torque at 0.5Hz for reliable startup of high-power submersible pumps under heavy-head conditions.

Full Protective Functions

Standard protection against short-circuits, phase loss, overcurrent, overvoltage, overheat, overload, underload.

Built-in PID Control

Simplifies closed-loop pressure or flow control, eliminating the need for external controllers in pressurized systems.

Shared Platform with 15KW

Uses the same 310×195×165mm footprint & 10mm² cable spec as the 15KW model for consistent multi-inverter system design.

TECHNICAL NOTE

Model E-SPI18.5K3P. Motor: 18.5KW/25HP. Nominal Capacity: 44KVA. Input: AC 3PH 380V(–15%) to 440V(+10%) / 900VDC PV. VOC: 550–750VDC. MPPT: 450–600VDC. Start-up: 300–900VDC (Adjustable). Input Current: 46.7A. Output Current: 37A. Dimensions (H×W×D): 310×165×195mm. Weight: 5.5KG. Package: 400×240×275mm. Cable: RST/UVW 10mm² / PE 10mm² / PV 10mm². Set Screw: M5, 2.0–2.5Nm. Control: SVC / V/F. Starting Torque: 0.5Hz/150% (SVC). Overload: 150%/60s; 170%/12s; 190%/1.5s. Output Frequency: 0.1–500Hz. Communication: RS-485 Modbus. Temp: –10°C to 50°C. Storage: –20°C to 60°C. Noise: 65dBA max. Safety: IEC 61800-5-1. EMC: IEC 61800-3(C3). Specifications subject to change without notice.



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