E-SPI15K3P

EURONET SOLAR PUMP INVERTER – 15kW

Three-Phase 380V Solar Pump Inverter | MPPT | AVR



MOTOR POWER **15KW / 20HP**	NOMINAL CAPACITY **37 KVA**
MAX PV INPUT **900VDC**	MPPT RANGE **450–600VDC**
OUTPUT CURRENT **32A**	AC INPUT **3PH 380–440V**

OVERVIEW

The EURONET E-SPI15K3P is a 15kW three-phase solar pump inverter for high-capacity agricultural irrigation and industrial water systems. It drives 15KW / 20HP pump motors from a PV array of up to 900VDC or from 380V three-phase AC, with built-in MPPT at over 99% efficiency across 450–600VDC. SVC control delivers 150% starting torque at 0.5Hz for reliable deep-well start-up, and the 37 KVA nominal capacity supports 32A output current. Conformal coating, RS-485 Modbus, IEC 61800-5-1 safety and CE marking suit demanding off-grid deployments.

KEY FEATURES

37KVA / 32A Output
Powers 15KW / 20HP motors with 37KVA nominal capacity for high-capacity irrigation systems

10mm² Cable Rating
Terminals take up to 10mm² wiring with M5 set screws (2.0–2.5Nm) for safe, continuous operation

Deceleration-to-Stop
Uses motor feedback energy during power loss to slow the pump smoothly and prevent damage

Timer Control
Built-in 0.0–650.0 minute timer for automated irrigation scheduling and water storage

AVR Output Stabilisation
Automatic Voltage Regulation stabilises output during grid fluctuations to protect the motor

Full Protective Suite
Short-circuit, phase loss, overcurrent, overvoltage, overheat, overload, underload and weak light

TECHNICAL NOTE

Model E-SPI15K3P. Motor 15KW / 20HP; nominal capacity 37 KVA. 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. Control SVC / V/F, 0.5Hz/150% starting torque; overload 150%/60s, 170%/12s, 190%/1.5s. RS-485 Modbus. 310×165×195mm (H×W×D), 5.5kg.

© 2026 Euronet Technologies LLC. All rights reserved. | ISO 9001:2015 Certified

E-SPI15K3P

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-SPI15K3P
Motor Power	15KW / 20HP
Nominal Capacity	37 KVA
Phase	Three-phase 380V
PV INPUT	
Max PV Input	900VDC
PV VOC	550–750VDC
MPPT Range	450–600VDC
MPPT Efficiency	>99%
Start-up Voltage	300–900VDC (adjustable)
AC INPUT	
AC Input	3PH 380V (–15%) to 440V (+10%)
Input Current	37.9A
PV / Grid Switching	Automatic, with optional external kit
OUTPUT	
Output Current	32A
Output Frequency	0.1–500Hz
Overload	150%/60s; 170%/12s; 190%/1.5s

PARAMETER	SPECIFICATIONS
CONTROL & COMMUNICATION	
Control Mode	SVC / V/F
Starting Torque	0.5Hz / 150% (SVC)
Communication	RS-485 Modbus
Deep-well Rating	Up to 200 m (range rating)
Timer	0.0–650.0 min
AVR	Automatic Voltage Regulation
Power-loss Stop	Deceleration-to-stop
Protection	Short-circuit, phase loss, overcurrent, overvoltage, overheat, overload, underload, weak light
PHYSICAL & INSTALLATION	
Dimensions (H×W×D)	310×165×195mm
Net Weight	5.5kg
Package	400×240×275mm
Cable RST/UVW · PE · PV	10mm² · 10mm² · 10mm²
Set Screw	M5, 2.0–2.5Nm
ENVIRONMENT	
Operating Temperature	–10°C to 50°C
Storage Temperature	–20°C to 60°C
Noise	65dBA max
PCB Protection	Conformal coating
COMPLIANCE	
Safety	IEC 61800-5-1
EMC	IEC 61800-3 (C3)
Marking	CE

**Specifications are subject to change without prior notice.*

© 2026 Euronet Technologies LLC. All rights reserved. | ISO 9001:2015 Certified