E-SPI11K3P

EURONET SOLAR PUMP INVERTER – 11kW

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



MOTOR POWER **11KW / 15HP**	NOMINAL CAPACITY **30 KVA**
MAX PV INPUT **900VDC**	MPPT RANGE **450–600VDC**
OUTPUT CURRENT **25A**	AC INPUT **3PH 380–440V**

OVERVIEW

The EURONET E-SPI11K3P is a 11kW three-phase solar pump inverter for large agricultural irrigation systems, water infrastructure and high-demand off-grid deployments. It drives 11KW / 15HP 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 30 KVA nominal capacity supports 25A output current. Conformal coating, RS-485 Modbus, IEC 61800-5-1 safety and CE marking suit demanding off-grid deployments.

KEY FEATURES

30KVA / 25A Output
Powers 11KW / 15HP motors with 30KVA nominal capacity for large agricultural pump systems

6mm² Cable Rating
Terminals take up to 6mm² wiring with M5 set screws (2.0–2.5Nm) for safe, continuous operation

SVC 150% Starting Torque
Delivers 150% torque at 0.5Hz to 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 risk to keep the drive running smoothly through pump start-up transients

Built-in PID
Simplifies closed-loop pressure or flow control, with no need for external system controllers

TECHNICAL NOTE

Model E-SPI11K3P. Motor 11KW / 15HP; nominal capacity 30 KVA. 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. Control SVC / V/F, 0.5Hz/150% starting torque; overload 150%/60s, 170%/12s, 190%/1.5s. RS-485 Modbus. 245×124×180.5mm (H×W×D), 3.5kg.

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E-SPI11K3P

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-SPI11K3P
Motor Power	11KW / 15HP
Nominal Capacity	30 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	27.8A
PV / Grid Switching	Automatic, with optional external kit
OUTPUT	
Output Current	25A
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)
PID	Built-in, closed-loop pressure / flow
Stall Prevention	Current and voltage limiting
PHYSICAL & INSTALLATION	
Dimensions (H×W×D)	245×124×180.5mm
Net Weight	3.5kg
Package	288×184×221mm
Cable RST/UVW · PE · PV	$6mm^2 \cdot 6mm^2 \cdot 6mm^2$
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.*

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