E-SPI7.5K3P

EURONET SOLAR PUMP INVERTER – 7.5kW

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



MOTOR POWER **7.5KW / 10HP**	NOMINAL CAPACITY **15 KVA**
MAX PV INPUT **900VDC**	MPPT RANGE **450–600VDC**
OUTPUT CURRENT **17A**	AC INPUT **3PH 380–440V**

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 drives 7.5KW / 10HP 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 15 KVA nominal capacity supports 17A output current. Conformal coating, RS-485 Modbus, IEC 61800-5-1 safety and CE marking suit demanding off-grid deployments.

KEY FEATURES

15KVA / 17A Output
Powers 7.5KW / 10HP motor loads with 15KVA nominal capacity for mid-to-large pump operation

900VDC PV Input
Accepts up to 900VDC, with 550–750VDC VOC and 450–600VDC MPPT for three-phase arrays

150% SVC Starting Torque
Delivers 150% torque at 0.5Hz for smooth start-up of deep-well and high-head pumps off-grid

Stepped-Up Enclosure
Expanded 245×124×180.5mm housing optimises thermal management during sustained 7.5KW operation

200 m Deep Well Design
Built for deep-well submersibles up to 200 m, with cloud-shade adaptation to maintain flow

Programmable I/O
5 digital inputs, 1 analog input, 1 relay and 1 analog output for level sensors and flow switches

TECHNICAL NOTE

Model E-SPI7.5K3P. Motor 7.5KW / 10HP; nominal capacity 15 KVA. 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. 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-SPI7.5K3P

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-SPI7.5K3P
Motor Power	7.5KW / 10HP
Nominal Capacity	15 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	18.9A
PV / Grid Switching	Automatic, with optional external kit
OUTPUT	
Output Current	17A
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 · cloud-shade adaptation
Programmable I/O	5 DI · 1 AI · 1 relay · 1 AO
PHYSICAL & INSTALLATION	
Dimensions (H×W×D)	245×124×180.5mm
Net Weight	3.5kg
Package	288×184×221mm
Cable RST/UVW · PE · PV	4mm² · 4mm² · 4mm²
Set Screw	M4, 1.3–1.5Nm
ENVIRONMENT	
Operating Temperature	–10°C to 50°C
Storage Temperature	–20°C to 60°C
Humidity	<95% RH
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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