EU-PUMP IN 22KW

EURONET SOLAR PUMP INVERTER – 22kW

Three-Phase 380V Solar Pump Inverter | DC & AC Input



MOTOR POWER	RATED OUTPUT
22KW / 30HP	3PH 380V AC
MAX DC INPUT	**WORKING VOLTAGE**
900VDC	540VDC
INPUT / OUTPUT CURRENT	**MPPT ACCURACY**
51A / 45A	Up to 99%

OVERVIEW

The EURONET EU-PUMP IN 22KW is a 22kW three-phase 380V solar photovoltaic pump inverter for large-scale irrigation and water supply. It converts DC from the solar array into AC to drive the pump directly, with no battery: the recommended DC input range is 420V–720V, with 540VDC as the recommended working voltage and 900VDC maximum. It also accepts AC 3PH 380V ±15%, and DC and AC input at the same time. High-precision MPPT with accuracy up to 99%, intelligent auto-sleep and under- and over-voltage protection keep water flowing to remote sites.

KEY FEATURES

High-Precision MPPT
MPPT accuracy up to 99% for higher utilisation of solar energy across the 420V–720V DC input range

DC & AC Input Together
Accepts DC from the solar array and AC 3PH 380V ±15% at the same time for steady water supply

Intelligent Auto-Sleep
Auto-sleep with under-voltage and over-voltage protection, so the system runs automatically

Water-Level Inputs
DI1/DI2 well and DI3/DI4 reservoir water-level detection inputs, sharing a common COM terminal

22kW Three-Phase Output
Rated output 3PH 380V AC for 22kW pump motors, with 51A input and 45A output current

No Battery Required
Transforms solar DC into AC to drive the pump directly, replacing batteries with stored water

TECHNICAL NOTE

Model EU-PUMP IN 22KW. Motor power 22KW / 30HP; rated input power 22.0 kW. Input DC 420V–720V or AC 3PH 380V ±15%; max DC input 900V; recommended working voltage 540VDC; 1 input port. Rated output 3PH 380V AC. Input current 51A, output current 45A. IP20. Dimensions 342×200×200.5mm (H×W×D); mounting holes 185×330mm, Ø6mm. Install vertically with 50mm side and 200mm top/bottom clearance.

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EU-PUMP IN 22KW

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EU-PUMP IN 22KW
Product Type	Solar photovoltaic pump inverter
Motor Power	22KW / 30HP
Rated Input Power	22.0 kW
Protection Class	IP20
Nominal Capacity	Not available
INPUT	
Input	420–720VDC or AC 3PH 380V ±15%
Rated Input AC Voltage	380V AC
Max DC Input Voltage	900V DC
Recommended DC Input Range	420V–720V DC
Recommended Working Voltage	540V DC
Number of Input Ports	1
Rated Input Current	51A
DC & AC Input	Accepted at the same time
OUTPUT	
Rated Output Voltage	3PH 380V AC
Rated Output Current	45A
Rated Output	3PH 380V AC · 22kW
CONTROL & PROTECTION	
MPPT	High-precision · accuracy up to 99%
Auto-sleep	Intelligent auto-sleep
Voltage Protection	Under-voltage and over-voltage

PARAMETER	SPECIFICATIONS
TERMINALS	
R, S, T	3-phase AC input
U, V, W	Motor wiring
(+), (–)	Reserved for braking unit
(+), PB	Reserved for braking resistor
DI1, DI2	Well water-level detection input
DI3, DI4	Reservoir water-level detection input
COM	Water-level signal common
PHYSICAL & INSTALLATION	
Dimensions (H×W×D)	342×200×200.5mm
Mounting Holes	185×330mm · Ø6mm
Clearance	50mm sides · 200mm above & below
Orientation	Installed vertically upward
Net Weight	Not available
Package	Not available
Cable Size	Not available
PV ARRAY SIZING (REFERENCE)	
PV Array Power	About 1.2–1.5 × motor power
Basis	Adjust for local irradiance and panel type
ENVIRONMENT	
Operating Temperature	Not available

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

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