

# TOBE SPI 3000A - 30000A SOLAR PUMPING INVERTER

TOBE



With AC Bypass Input



## Overview

3kw - 30kw solar pumping inverter for residential and shallow Wells, as long as the water pump is running by AC motor.

## Features

IP65

AC/DC switching

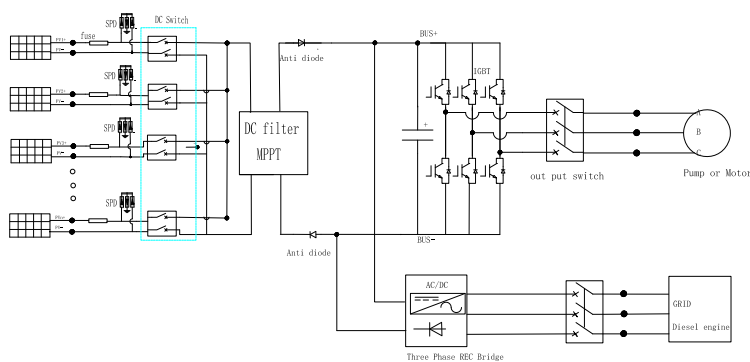
Aluminum alloy shell

Remote monitoring

LCD screen

Compact design

## Block Diagram



# Datasheet

TOBE SPI3000A      TOBE SPI4000A      TOBE SPI5500A      TOBE SPI7500A      TOBE SPI9200A

## DC Input

MPPT number	1	1	1	1	1
Max. input strings	2	2	2	3	3
Start voltage (V)	250	250	250	250	250
Max. input current (A)	9	11	12	19	22
Max. input voltage (V)	900	900	900	900	900
MPPT voltage range (V)	500 – 680	500 – 680	500 – 680	500 – 680	500 – 680

## AC Input

Input voltage range (V)	380±15%	380±15%	380±15%	380±15%	380±15%
Input frequency range (Hz)	50/60±5%	50/60±5%	50/60±5%	50/60±5%	50/60±5%

## AC Output

Rated output power (W)	3000	4000	5500	7500	9200
Rated voltage (V)	380	380	380	380	380
Output voltage range (V)	0 – 440	0 – 440	0 – 440	0 – 440	0 – 440
Output frequency (Hz)	0 – 50/60	0 – 50/60	0 – 50/60	0 – 50/60	0 – 50/60
Max. output current (A)	8	10	11	18	21

## General Data

Certification	CE (EN 62109-2:2011)				
Display screen	LCD				
Communication port	RS485/CAN/GPRS				
Protection level	IP65				
Operating altitude (m)	<6000(>3000 derating)				
Cooling concept	Natural cooling				
Operating temperature range (°C)	-25°C~+60°C				
Dimension (D*W*H mm)	160*395*355	160*395*355	160*395*355	168*465*365	168*465*365
Net weight (kgs)	12	12	12	14	14

## Recommended Water Pump

Water pump type	AC pump	AC pump	AC pump	AC pump	AC pump
Rated voltage (V)	380	380	380	380	380
Frequency (Hz)	50	50	50	50	50
Inverter power (W)	3000	4000	5500	7500	9200
Max. input current (A)	8	10	11	18	21
Applicable motor power	3kW/4HP	4kW/5.5HP	5.5kW/7.5HP	7.5kW/10HP	9.2kW/12.5HP

# Datasheet

TOBE SPI11000A    TOBE SPI13000A    TOBE SPI15000A    TOBE SPI18500A    TOBE SPI22000A

## DC Input

MPPT number	1	1	1	1	1
Max. input strings	3	6	6	6	6
Start voltage (V)	250	250	250	250	250
Max. input current (A)	24	31	32	38	46
Max. input voltage (V)	900	900	900	900	900
MPPT voltage range (V)	500 - 680	500 - 680	500 - 680	500 - 680	500 - 680

## AC Input

Input voltage range (V)	380 ± 15%	380 ± 15%	380 ± 15%	380 ± 15%	380 ± 15%
Input frequency range (Hz)	50/60 ± 5%	50/60 ± 5%	50/60 ± 5%	50/60 ± 5%	50/60 ± 5%

## AC Output

Rated output power (W)	11000	13000	15000	18500	22000
Rated voltage (V)	380	380	380	380	380
Output voltage range (V)	0 - 440	0 - 440	0 - 440	0 - 440	0 - 440
Output frequency (Hz)	0 - 50/60	0 - 50/60	0 - 50/60	0 - 50/60	0 - 50/60
Max. output current (A)	24	28	30	39	45

## General Data

Certification	CE (EN 62109-2:2011)				
Display screen	LCD				
Communication port	RS485/CAN/GPRS				
Protection level	IP65				
Operating altitude (m)	<6000(>3000 derating)				
Cooling concept	Natural cooling				
Operating temperature range (°C)	-25°C ~ +60°C				
Dimension (D*W*H mm)	168*465*365	190*505*415	190*505*415	190*505*415	190*505*415
Net weight (kgs)	14	22.5	22.5	22.5	22.5

## Recommended Water Pump

Water pump type	AC pump	AC pump	AC pump	AC pump	AC pump
Rated voltage (V)	380	380	380	380	380
Frequency (Hz)	50	50	50	50	50
Inverter power (W)	11000	13000	15000	18500	22000
Max. input current (A)	24	28	30	39	45
Applicable motor power	11kW/15HP	13kW/17.5HP	15kW/20HP	18.5kW/25HP	22kW/30HP

# Datasheet

TOBE SPI26000A

TOBE SPI30000A

## DC Input

MPPT number	1	1
Max. input strings	8	8
Start voltage (V)	250	250
Max. input current (A)	53	64
Max. input voltage (V)	900	900
MPPT voltage range (V)	500 - 680	500 - 680

## AC Input

Input voltage range (V)	380 ± 15%	380 ± 15%
Input frequency range (Hz)	50/60 ± 5%	50/60 ± 5%

## AC Output

Rated output power (W)	26000	30000
Rated voltage (V)	380	380
Output voltage range (V)	0 - 440	0 - 440
Output frequency (Hz)	0 - 50/60	0 - 50/60
Max. output current (A)	50	60

## General Data

Certification	CE (EN 62109-2:2011)	
Display screen	LCD	
Communication port	RS485/CAN/GPRS	
Protection level	IP65	
Operating altitude (m)	<6000(>3000 derating)	
Cooling concept	Natural cooling	
Operating temperature range (°C)	-25°C ~ +60°C	
Dimension (D*W*H mm)	190*520*41	190*520*415
Net weight (kgs)	30	32

## Recommended Water Pump

Water pump type	AC pump	AC pump
Rated voltage (V)	380	380
Frequency (Hz)	50	50
Inverter power (W)	26000	30000
Max. input current (A)	50	60
Applicable motor power	26kW/35HP	30kW/40HP