

# SUNNY TRIPOWER 25000TL-JP

STP 25000TL-JP-30



## Efficient

- Efficiency of 98.0% (as per JIS C 8961)
- Peak efficiency of 98.7%

## Flexible

- DC input voltage of up to 1000 V
- Optimum system design thanks to multistring concept and step-up converter
- Operating temperature range from  $-25^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  through active OptiCool temperature management

## Convenient

- Straightforward system visualization and monitoring thanks to Webconnect and Sunny Portal
- Integrated graphic display showing yield values and daily trends

## Innovative

- Efficient parameterization and remote monitoring via SMA Cluster Controller and Sunny Portal for medium-sized and large-scale systems

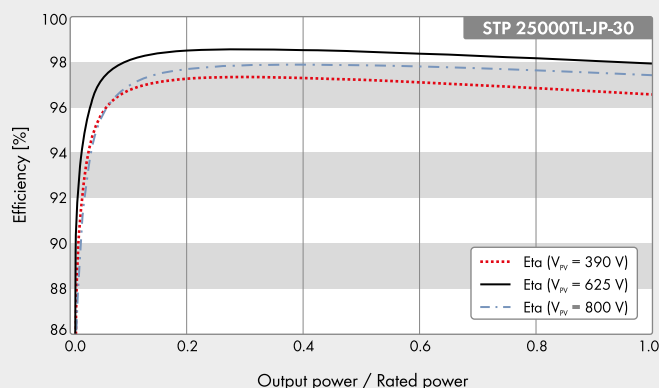
## SUNNY TRIPOWER 25000TL-JP

The reliable specialist for decentralized systems on the medium-voltage grid

The new Sunny Tripower 25000TL-JP is the high-performance solution for use in larger, decentralized medium-voltage systems on the Japanese market. This newly developed product is based on the technologically mature Sunny Tripower platform. Users benefit from years of experience and the professional support that SMA as a market leader provides. Its peak efficiency of 98.7 percent ensures high yields, thereby guaranteeing system operators rapid amortization. The multistring concept and wide input voltage range allows for high design flexibility and compatibility with many PV modules on the market.

In addition to professional and efficient system monitoring, the optional SMA Cluster Controller also enables personalized system parameterization using Modbus.

## Efficiency Curve



## Accessory



DC surge arrester type II,  
inputs A and B  
DCSPD KIT3-10



Power Control Module  
PWCMOD-10



Multi-function relay  
MFRO1-10

### Technical Data

#### Input (DC)

Max. generator power
DC rated power
Max. input voltage
MPP voltage range at nominal voltage / rated input voltage
Min. input voltage / initial input voltage
Max. input current input A / input B
Number of independent MPP inputs / strings per MPP input

#### Output (AC)

Rated power at nominal voltage
Max. apparent AC power
Nominal AC voltage
AC voltage range
AC power frequency / range
Rated power frequency / rated grid voltage
Max. output current
Power factor at rated power
Adjustable displacement power factor
THD
Feed-in phases / connection phases

#### Efficiency

Max. efficiency / efficiency as per IIS C 8961
--

#### Protective devices

DC-side disconnection point
Ground fault monitoring / grid monitoring
DC surge arrester SPD type II
DC reverse polarity protection / AC short-circuit current capability / galvanically isolated
All-pole sensitive residual-current monitoring unit
Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)

#### General data

Dimensions (W / H / D)
Weight
Operating temperature range
Noise emission, typical
Self-consumption (at night)
Topology / cooling concept
Degree of protection (as per IEC 60529)
Climatic category (according to IEC 60721-3-4)
Max. permissible value for relative humidity (non-condensing)

#### Features

DC connection / AC connection
Display
Interface
Multifunction relay / Power Control Module
Warranty: 5 / 10 / 15 / 20 years
OptiTrac Global Peak / FRT* / manual restart

● Standard features ○ Optional features – Not available, data at nominal conditions

\* according to JEAC 9701-2012 (3-4)

Type designation

### Sunny Tripower 25000TL-JP

45000 W <sub>p</sub>
25550 W
1000 V
390 V to 800 V / 625 V
150 V / 188 V
33 A / 33 A
2 / A:3; B:3
25000 W
25000 VA
3 / N / PE; 420 V, 50 Hz
3 / N / PE; 440 V, 60 Hz
360 V to 480 V
50 Hz / 44 Hz to 55 Hz
60 Hz / 54 Hz to 65 Hz
50 Hz / 420 V
38 A
1
0.8 overexcited to 0.8 underexcited
≤ 3 %
3 / 3

98.7% / 98.0%

●  
● / ●  
○  
● / ● / –  
●

I / AC: III; DC: II

661 / 682 / 264 mm (26.0 / 26.9 / 10.4 inch)
61 kg (134.48 lb)
-25 °C to +60 °C (-13 °F to +140 °F)
51 dB(A)
1 W
Transformerless / OptiCool
IP65
4K4H
100%

SUNCLIX / spring-cage terminal

LC graphic display

Speedwire / Webconnect

○ / ○

● / ○ / ○ / ○

● / ● / ●

STP 25000TL-JP-30