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 °C to +60 °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

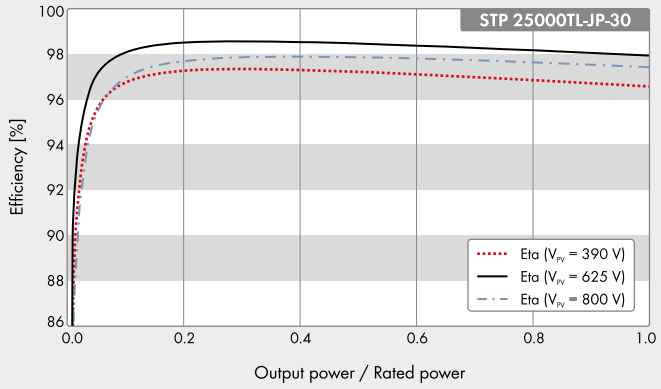
- Efficient parameterization and remote monitoring via SMA Cluster Controller and Sunny Portal for medium-sized and large-scale systems

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
MFR01-10

	Sunny Tripower 25000TL-JP
Input (DC)	
Max. DC power (@ cos φ = 1) / DC rated power	25,550 W / 25,550 W
Max. input voltage	1,000 V
MPP voltage range at nominal voltage / rated input voltage	390 V to 800 V / 625 V
Min. input voltage / initial input voltage	150 V / 188 V
Max. input current input A / input B	33 A / 33 A
Number of independent MPP inputs / strings per MPP input	2 / A:3; B:3
Output (AC)	
Rated power at nominal voltage	25,000 W
Max. apparent AC power	25,000 VA
Nominal AC voltage	3 / N / PE; 420 V 3 / N / PE; 440 V
AC voltage range	360 V to 480 V
AC power frequency / range	50 Hz / 44 Hz to 55 Hz 60 Hz / 54 Hz to 65 Hz
Rated power frequency / rated grid voltage	50 Hz / 420 V
Max. output current	38 A
Power factor at rated power	1
Adjustable displacement power factor	0.8 overexcited to 0.8 underexcited
THD	≤ 3 %
Feed-in phases / connection phases	3 / 3
Efficiency	
Max. efficiency / efficiency as per JIS C 8961	98.7% / 98.0%
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)	I / AC: III; DC: II
General data	
Dimensions (W / H / D)	661 / 682 / 264 mm (26.0 / 26.9 / 10.4 inch)
Weight	61 kg (134.48 lb)
Operating temperature range	-25°C to +60°C (-13°F to +140°F)
Noise emission, typical	51 dB(A)
Self-consumption (at night)	1 W
Topology / cooling concept	Transformerless / OptiCool
Degree of protection (as per IEC 60529)	IP65
Climatic category (according to IEC 60721-3-4)	4K4H
Max. permissible value for relative humidity (non-condensing)	100%
Features	
DC connection / AC connection	SUNCLIX / spring-cage terminal
Display	LC graphic display
Interface	Speedwire / Webconnect
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	STP 25000TL-JP-30