# SUN INGECON

SINGLE-MPPT STRING INVERTER WITH A GREATER **POWER DENSITY** 

# INGECON<sup>®</sup> SUN 300TL

#### Great output power

Featuring a greater output power, the new INGECON® SUN 300TL is able to drastica-Ily reduce the number of inveters required for designing a PV power plant.

#### Cabling cost reduction

Thanks the innovative design, this inverter allows to use DC harnessing cable solutions. As a consequence, it reduces the global labour and cabling cost.

#### Higher flexibility and power density

The highest flexibility thanks to its maximum DC voltage (1,500 V) and to its wide voltage range MPP. Awesome power density, with up to 300 kW.

#### Long-lasting and rugged design

Aluminium casing, especially conceived for indoor and outdoor applications (IP66). The INGECON® SUN 300TL have been designed to guarantee a long life expectancy and to withstand extreme temperatures.

### Wi-Fi communication as standard

The inverter features Wi-Fi communication as standard. This Wi-Fi interface is used to commission the inverter through the

INGECON® SUN Monitor App, available for iOS and Android. A wizard guides the user through the entire start-up process.

#### SPE (Single Pair Ethernet)

The inverter features SPE communication as standard. Using SPE, the communication with the inverters can be established up to 1,000 meters. Moreover, these inverters enables daisy chain connection. Thus, several inverters can be connected to the same SPE line. The versatility and possibilities offered by the SPE are an important improvement at the plant's communication network.

### Grid support

The INGECON® SUN 300TL has been designed to comply with the grid connection requirements in different countries, contributing to the quality and stability of the electric system. These inverters therefore feature a low voltage ridethrough capability, and can deliver reactive power and control the active power delivered to the grid

### Remote monitoring

The inverter can be monitored with the www.ingeconsunmonitor.com website or with the INGECON® SUN Monitor App.

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www.ingeteam.com solar.energy@ingeteam.com

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## 3Play TL Series

INGECON

SUN

### INGECON® SUN 300TL

# Optimized design for stacked mounting arrangement

The inverter has been designed to be mounted in the string station as a virtual central power station, reducing the size and facilitating intallation and cabling connections.

#### Integrated components

DC surge arresters, type II	1
AC surge arresters, type II	$\checkmark$
AC quick connectors	$\checkmark$
Wi-Fi communication	1
SPE (Single Pair Ethernet) communication	1

#### MAIN FEATURES

- 1 MPPT.
- DC terminal connection up to 400 mm2.
- PID recovery.
- Reactive power capability.
- Reactive power injection at night.
- Low-voltage ride-through capability.
- 99.05% maximum efficiency.
- Single Pair Ethernet and Wi-Fi communications.
- Integrated Webserver.
- Software INGECON® SUN Monitor for PV plant monitoring.
- Suitable for indoor and outdoor installations (IP66).
- High temperature performance.





#### PROTECTIONS

Specifications included in this datasheet could change without notice. Please contact Ingeteam's sales department in case of any queries

- Shortcircuits and overloads at the output.
- Anti-islanding with automatic disconnection.
- Insulation faults.
- AC overvoltages with type II surge arresters.
- DC overvoltages with type II surge arresters.

#### BENEFITS

- Greater power density.
- Harnnessing cable solutions.
- Greater cost-effectiveness thanks to the cabling cost reduction.
- High availability compared to central inverters.
- High efficiency rates.
- Easy maintenance.

### Ingeteam

Input (DC)	600 V	615 V	630 V	CATN				
Input (DC)			030 ¥	645 V	660 V	675 V	690 V	
·								
MPP voltage range <sup>(1)</sup>	933 - 1,300 V	957 - 1,300 V	980 - 1,300 V	1,003 - 1,300 V	1,027 - 1,300 V	1,050 - 1,300 V	1,073 - 1,300 V	
Maximum voltage				1,500 V				
Maximum current				278				
Number of inputs (MPPT)				1				
Output (AC)				Ĩ				
	260 1/1/4	266 10/0	273 kVA	279 kVA	286 kVA	292 kVA	299 kVA	
Rated power Maximum current	260 kVA	266 kVA	273 KVA	279 KVA 250 A	200 KVA	292 KVA	299 KVA	
				45 °C				
Ambient temperature for rated power	600 V	615 V	630 V	45°C 645 V	660 V	675 V	690 V	
Rated voltage Frequency	000 V	015 V	030 V	50 / 60 Hz	000 V	075 V	090 V	
Type of grid				IT				
Power factor adjustable <sup>(2)</sup>	Yes, 0 - 1 (leading / lagging)							
THD (Total Harmonic Distortion)(3)				<3%				
Efficiency								
Maximum efficiency				99.05%				
Euroefficiency				98.60%				
General information								
Cooling system				Forced ventilation				
Air flow	900 m³/h							
Aux. consumption	20 W							
Operation temperature	-30 °C to 60 °C							
Relative humidity (non-condensing)	0 - 100%							
Protection class	IP66 / NEMA 4							
Residual current monitoring unit	Yes							
Maximum operating altitude	res 4,000 m.a.s.l. (for installations beyond 1,000 m.a.s.l., please contact Ingeteam's solar sales department)							
Connection	AC quick connectors: 95 - 120 mm <sup>2</sup> DC connection: up to 2 x 400 mm <sup>2</sup>							
Marking				CE				
EMC and safety standards	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12, EN 62109-1, EN 62109-2, IEC62103, EN 50178, FCC Part 15, IEC60068-2-1:2007, IEC60068-2-2:20007, IEC60068-2-14:2009, IEC60068-2-30:2005, IEC62116, IEC61683 y EN50530							
Grid connection standards	DIN V VDE V 0126- ABNT NBR 161	-1-1, EN 50439, EN 50 (49, ABNT NBR 16150	), Brazilian Grid Code	-16 VDE-AR-N 4105:201 e, South African Grid Code 0, NTS de REE, Directive	e, Chilean Grid Code, DE	EC 62116, IEC 61727, WA 2.0, Jordanian Grid	UNE 206007-1, Code , G99,	
Notes:		r Factor=1).	E	Efficiency INGEC	ON® SUN 3001	L		
<sup>(2)</sup> Extended adjustment range for nomir <sup>(3)</sup> For rated AC power and voltage in act <sup>(3)</sup> For rated AC power and voltage in act <sup>(3)</sup>		0-3-4.		100 98 96 96 96 96 96 96 96 96 96 92 91 91 91 91 90 90 10	20 30 40 5 Powe		90 100	
Size and weight (mm)		<b>300TL</b> 105 kg.		+	Inverter are a contraction of the second se	AC filer 2x AC Reav	- 11 - 12 AC output - 13	

Ingeteam

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