

# Ingecon<sup>®</sup> Sun Lite

## TRANSFORMERLESS

2.5 TL / 3 TL / 3.3 TL / 3.8 TL / 4.6 TL / 5 TL / 6 TL

### Technical Data

Model	Ingecon <sup>®</sup> Sun 2.5 TL	Ingecon <sup>®</sup> Sun 3 TL	Ingecon <sup>®</sup> Sun 3.3 TL
<b>Input (DC)</b>			
Recommended PV array power range <sup>(1)</sup>	2.8 - 3.3 kWp	3.2 - 4 kWp	3.8 - 4.3 kWp
MPPT voltage range	160 - 450 V	195 - 450 V	155 - 450 V
Maximum DC voltage <sup>(2)</sup>	125 - 550 V	125 - 550 V	125 - 550 V
Maximum DC current	16 A	16 A	22 A
DC inputs	3	3	3
MPPT	1	1	1
<b>Output (AC)</b>			
AC rated power HT mode <sup>(3)</sup>	2.5 kW	2.8 kW	3.3 kW
AC rated power HP mode <sup>(4)</sup>	2.7 kW	3 kW	3.7 kW
Maximum AC current	13 A	13.5 A	17 A
AC output voltage	230 V	230 V	230 V
Output frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power factor <sup>(5)</sup>	1	1	1
Adjustable Power factor	± 0.9 at P <sub>nom</sub>	± 0.9 at P <sub>nom</sub>	± 0.9 at P <sub>nom</sub>
THD (Total Harmonic Distortion) <sup>(5)</sup>	< 3 %	< 3 %	< 3 %
<b>Efficiency</b>			
Maximum efficiency	96.6 %	96.6 %	96.8 %
European efficiency	95 %	95.1 %	95.2 %
<b>General Information</b>			
Stand-by consumption <sup>(6)</sup>	< 10 W	< 10 W	< 10 W
Night consumption	0 W	0 W	0 W
Operating temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Ambient humidity	0 to 95 %	0 to 95 %	0 to 95 %
Protection class	IP 65	IP 65	IP 65
Compliance with standards	VDE0126-1-1, RD 661/2007, EN 50178, RTC alle reti BT di Enel Distribuzione, CEI 11-20, CEI 11-20 V1, CEI 0-16, CE mark		

#### HT mode (High Temperature)

Rated power at 45°C.

#### HP mode (High Power)

Rated power at 40°C.

#### Notes:

(1) Depending on the type of installation and geographical location.

(2) Must not be exceeded under any circumstances. Consider the voltage increase of the 'Voc' at low temperature.

(3) Up to 45°C operating temperature, P<sub>max</sub> = 110% P<sub>nom</sub> in transient operating conditions.

(4) Up to 40°C operating temperature, P<sub>max</sub> = P<sub>nom</sub>.

(5) For P<sub>out</sub> > 25% of the rated power.

(6) Consumption from PV array.

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## TRANSFORMERLESS

2.5 TL / 3 TL / 3.3 TL / 3.8 TL / 4.6 TL / 5 TL / 6 TL

### Technical Data

Model	Ingecon <sup>®</sup> Sun 3.8 TL	Ingecon <sup>®</sup> Sun 4.6 TL	Ingecon <sup>®</sup> Sun 5 TL	Ingecon <sup>®</sup> Sun 6 TL
<b>Input (DC)</b>				
Recommended PV array power range <sup>(1)</sup>	4.1 - 5.0 kWp	5.2 - 6.0 kWp	5.7 - 6.5 kWp	6.3 - 7.0 kWp
MPPT voltage range	140 - 450 V	145 - 450 V	160 - 450 V	190 - 450 V
Maximum DC voltage <sup>(2)</sup>	125 - 550 V	125 - 550 V	125 - 550 V	125 - 550 V
Maximum DC current	33 A	33 A	33 A	33 A
DC inputs	4	4	4	4
MPPT	1	1	1	1
<b>Output (AC)</b>				
AC rated power HT mode <sup>(3)</sup>	3.8 kW	4.6 kW	5 kW	5.4 kW
AC rated power HP mode <sup>(4)</sup>	3.9 kW	5 kW	5.5 kW	6 kW
Maximum AC current	18.8 A	24.2 A	25.5 A	26.2 A
AC output voltage	230 V	230 V	230 V	230 V
Output frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power factor <sup>(5)</sup>	1	1	1	1
Adjustable power factor	± 0.9 at Pnom	± 0.9 at Pnom	± 0.9 at Pnom	± 0.9 at Pnom
THD (Total Harmonic Distortion) <sup>(5)</sup>	< 3 %	< 3 %	< 3 %	< 3 %
<b>Efficiency</b>				
Maximum efficiency	97 %	97 %	97 %	97 %
European efficiency	95.6 %	96 %	96.1 %	96.1 %
<b>General Information</b>				
Stand-by consumption <sup>(6)</sup>	< 10 W	< 10 W	< 10 W	< 10 W
Night consumption	0 W	0 W	0 W	0 W
Operating temperature	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Ambient humidity	0 to 95 %	0 to 95 %	0 to 95 %	0 to 95 %
Protection class	IP 65	IP 65	IP 65	IP 65
Compliance with standards	VDE0126-1-1, RD 661/2007, EN 50178, G83/1, RTC alle reti BT di Enel Distribuzione, CEI 11-20, CEI 11-20 V1, CEI 0-16, CE mark			

#### HT mode (High Temperature)

Rated power at 45°C.

#### HP mode (High Power)

Rated power at 40°C.

#### Notes:

(1) Depending on the type of installation and geographical location.

(2) Must not be exceeded under any circumstances. Consider the voltage increase of the 'Voc' at low temperature.

(3) Up to 45°C operating temperature, Pmax = 110% Pnom in transient operating conditions.

(4) Up to 40°C operating temperature, Pmax = Pnom.

(5) For Pout > 25% of the rated power.

(6) Consumption from PV array.

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