

Ingecon[®] Sun Smart

WITH TRANSFORMER

10 / 12.5 / 15 / 20 / 25 / 30

Technical Data

Model	Ingecon [®] Sun 10	Ingecon [®] Sun 12.5	Ingecon [®] Sun 15
Input (DC)			
Recommended PV array power range ⁽¹⁾	11 - 13 kWp	13 - 16 kWp	16 - 20 kWp
MPPT voltage range	405 - 750 V	405 - 750 V	405 - 750 V
Maximum DC voltage ⁽²⁾	900 V	900 V	900 V
Maximum DC current	26 A	32 A	39 A
DC inputs	8	8	8
MPPT	1	1	1
Output (AC)			
AC rated power HT mode ⁽³⁾	10 kW	12.5 kW	15 kW
AC rated power HP mode ⁽⁴⁾	11 kW	13 kW	16 kW
Maximum AC current	19 A	22 A	23 A
AC output voltage	400 V	400 V	400 V
Output frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power factor ⁽⁵⁾	1	1	1
Adjustable Power factor	± 0.9 at P _{nom}	± 0.9 at P _{nom}	± 0.9 at P _{nom}
THD (Total Harmonic Distortion) ⁽⁵⁾	< 3 %	< 3 %	< 3 %
Efficiency			
Maximum efficiency	94.9 %	94.9 %	94.9 %
European efficiency	93.3 %	93.5 %	93.8 %
General Information			
Stand-by consumption ⁽⁶⁾	30 W	30 W	30 W
Night consumption	1 W	1 W	1 W
Operating temperature	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C
Ambient humidity	0 to 95 %	0 to 95 %	0 to 95 %
Protection class	IP 54	IP 54	IP 54
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_{max} = 110% P_{nom} in transient operating conditions.
- (4) Up to 40°C operating temperature, P_{max} = P_{nom}.
- (5) For P_{out} > 25% of the rated power.
- (6) Consumption from PV array.

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Technical Data

Model	Ingecon [®] Sun 20	Ingecon [®] Sun 25	Ingecon [®] Sun 30
Input (DC)			
Recommended PV array power range ⁽¹⁾	21 - 26 kWp	26 - 33 kWp	31 - 39 kWp
MPPT voltage range	405 - 750 V	405 - 750 V	405 - 750 V
Maximum DC voltage ⁽²⁾	900 V	900 V	900 V
Maximum DC current	52 A	65 A	78 A
DC inputs	14	14	14
MPPT	1	1	1
Output (AC)			
AC rated power HT mode ⁽³⁾	20 kW	25 kW	30 kW
AC rated power HP mode ⁽⁴⁾	22 kW	27.5 kW	33 kW
Maximum AC current	37 A	50 A	50 A
AC output voltage	400 V	400 V	400 V
Output frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power factor ⁽⁵⁾	1	1	1
Adjustable Power factor	± 0.9 at P _{nom}	± 0.9 at P _{nom}	± 0.9 at P _{nom}
THD (Total Harmonic Distortion) ⁽⁵⁾	< 3 %	< 3 %	< 3 %
Efficiency			
Maximum efficiency	96.1 %	96.1 %	96.1 %
European efficiency	94.5 %	94.9 %	95.2 %
General Information			
Stand-by consumption ⁽⁶⁾	30 W	30 W	30 W
Night consumption	1 W	1 W	1 W
Operating temperature	-20°C to 65°C	-20°C to 65°C	-20°C to 65°C
Ambient humidity	0 to 95 %	0 to 95 %	0 to 95 %
Protection class	IP 54	IP 54	IP 54
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		

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(3) Up to 45°C operating temperature, P_{max} = 110% P_{nom} in transient operating conditions.

(4) Up to 40°C operating temperature, P_{max} = P_{nom}.

(5) For P_{out} > 25% of the rated power.

(6) Consumption from PV array.

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