

HIGH EFFICIENCY IN MULTI- MEGAWATT SYSTEMS

110TL B220 / 140TL B220 / 175TL B275 / 190TL B300 /
200TL B320 / 220TL B345 / 230TL B360 / 250TL B400

Three phase inverter for medium and large power outputs on-roof applications and also for ground-based multi-megawatt applications.

Maximum efficiency at high temperatures

Advanced maximum power point tracker system (MPPT). Low voltage ride through capability, active power control and reactive power control. Suitable for medium voltage installations.

Easy to install

No additional items are required. Manual disconnection from the grid. Complete electrical protection equipment supplied as standard.

Easy to maintain

Internal datalogger for up to 3 months data storage. Control from either a remote PC or on-site from the inverter front key pad. Status and alarm LED indicators. LCD Screen. Useful life of more than 20 years.

Software included

Included at no extra cost are the INGECON® SUN Manager, INGECON® SUN Monitor and its iSun Monitor smartphone version for monitoring and recording the inverter data over the internet.

Standard 5 year warranty, extendable for up to 25 years

PROTECTIONS

- Reverse polarity.
- Output short-circuits and overloads.
- Insulation failures.
- Anti-islanding with automatic disconnection.
- DC breaker.
- DC fuses.
- AC thermal magnetic breaker.
- DC and AC surge arresters, type 2.

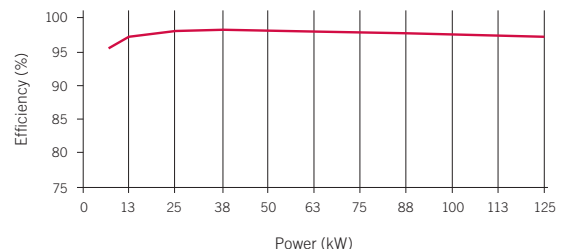
OPTIONAL ACCESSORIES

- Inter-inverter communication via RS-485, Ethernet or Bluetooth.
- GSM/GPRS remote communication.
- PV array string current monitoring. INGECON® SUN String Control.
- Grounding kit if required for the PV modules
- Synchronization available with other inverters, to connect to the same MV transformer.



EFFICIENCY

INGECON® SUN 125TL
V_{dc} = 450 V

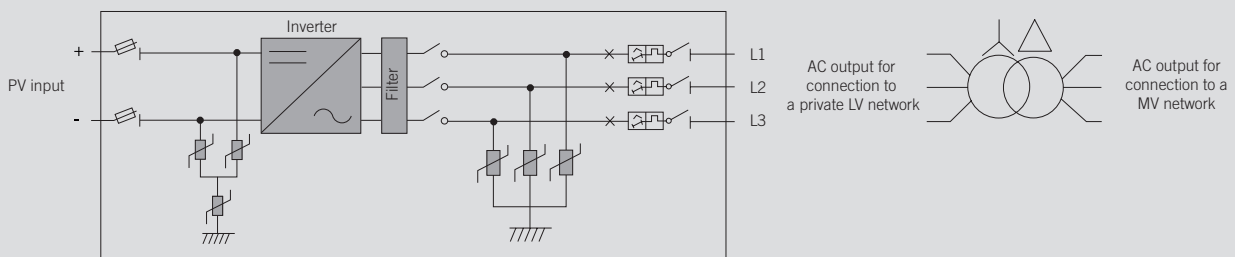


	110TL B220	140TL B220	175TL B275	190TL B300	200TL B320	220TL B345	230TL B360	250TL B400
Input (DC)								
Recommended PV array power range ⁽¹⁾	103 - 130 kWp	141 - 163 kWp	172 - 195 kWp	193 - 224 kWp	205 - 238 kWp	224 - 260 kWp	233 - 273 kWp	254 - 295 kWp
Voltage range MPP	405 - 820 V	405 - 820 V	450 - 820 V	468 - 820 V	468 - 820 V	502 - 820 V	524 - 820 V	578 - 820 V
Maximum voltage DC ⁽²⁾	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V	1,000 V
Maximum current DC	400 A	400 A	400 A	400 A	400 A	400 A	400 A	450 A
DC inputs	4	4	4	4	4	4	4	4
MPPT	1	1	1	1	1	1	1	1
Output (AC)								
Rated power AC ⁽³⁾	110 kW	137 kW	173 kW	189,2 kW	201,3 kW	220 kW	229 kW	250 kW
Maximum current AC	326 A	368 A	368 A	368 A	368 A	368 A	368 A	368 A
Rated voltage AC	220 V IT System	220 V IT System	275 V IT System	300 V IT System	320 V IT System	345 V IT System	360 V IT System	400 V IT System
Frequency AC	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Phi Cosine ⁽⁴⁾	1	1	1	1	1	1	1	1
Phi Cosine adjustable	Yes. Smax=110 kVA	Yes. Smax=137 kVA	Yes. Smax=173 kVA	Yes. Smax=189,2 kVA	Yes. Smax=201,3 kVA	Yes. Smax=220 kVA	Yes. Smax=229 kVA	Yes. Smax=250 kVA
THD ⁽⁵⁾	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency								
Maximum efficiency	98.4%	98.1%	98.5%	98.7%	98.7%	98.8%	98.8%	98.9%
Euroefficiency	97.5%	97.7%	98.2%	98.4%	98.4%	98.5%	98.6%	98.6%
General Information								
Air cooling	2,600 m ³ /h	2,600 m ³ /h	2,600 m ³ /h	2,600 m ³ /h	2,600 m ³ /h	2,600 m ³ /h	2,600 m ³ /h	2,600 m ³ /h
Stand-by consumption ⁽⁶⁾	30 W	30 W	30 W	30 W	30 W	30 W	30 W	30 W
Consumption at night	1 W	<5 W	<5 W	<5 W	<5 W	<5 W	<5 W	<5 W
Ambient temperature	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C	-20°C to +65°C
Relative humidity (non-condensing)	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%	0 - 95%
Protection class	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20

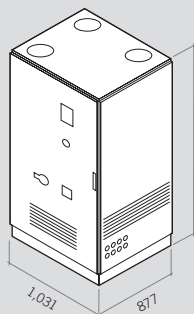
Notes: ⁽¹⁾ Depending on the type of installation and geographical location ⁽²⁾ Never exceed 1,000 V. Consider the voltage increase of the 'Voc' at low temperatures ⁽³⁾ AC Power for 40°C ambient temperature. For each °C of increase, the output power will be reduced at the rate of 1.8% ⁽⁴⁾ For P_{out}>25% of the rated power ⁽⁵⁾ For P_{out}>25% of the rated power and voltage in accordance with IEC 61000-3-4 ⁽⁶⁾ Consumption from PV field.

Compliance with standards: CE, IEC61000-6-2, IEC61000-6-4, EN50178, RD1699/2011, P.O.12.3, VDE-AR-N-4105, VDE0126-1-1, CEI11-20, CEI0-21, Allegato 70 TERNA, Arrêté23-04-2008, MV Guideline BDEW, G59/2.

Power TL



Size and weight (mm)



110TL B220
560 kg.
140TL B220 / 175TL B275 / 190TL B300 / 200TL B320
220TL B345 / 230TL B360 / 250TL B400
600 kg.