



Single-phase transformerless inverter 2,1 - 3 - 4,5 - 6 Kw

Beghelli Solar DATA Gate FH-DSSS radio transmission system

Integrated interface protection system (IPS)

Complies with the "Guide for connections to the ENEL Distribuzione electricity network"

Anti-islanding devices and integrated protection devices sensitive to output DC (CEI 64-8 conforming)

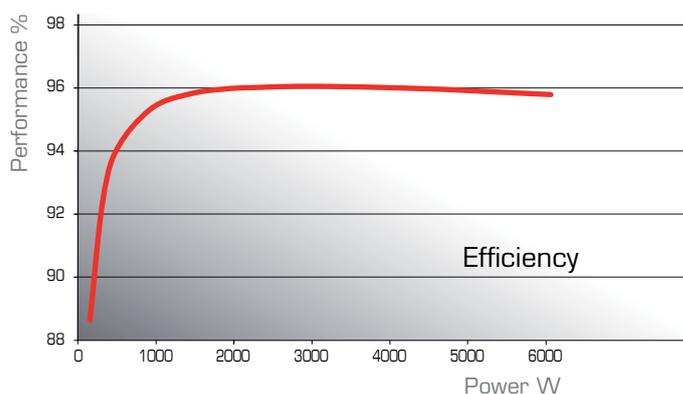
MPPT algorithm optimised for continuous maximum power point tracking

Colour touchscreen display

3 - 4.5 - 6 kW versions: Up to two inputs with independent MPPT to reduce the mismatching effect

High conversion efficiency

Single-phase inverter, without isolation transformer (transformerless), suitable for grid connection, with Beghelli Solar DATA Gate FH-DSSS radio transmission system for connection to PianetaSole control panels, with integrated output protection devices. The Beghelli transformerless inverters are equipped with the interface protection system (IPS) that intervenes directly on the interface device (ID) to disconnect the production system from the ENEL electricity network. Monitoring and remote management are possible with the addition of the GSM module, without the aid of dedicated control panels. According to the instructions of the network manager, the interface protection integrated in the inverter can be used in photovoltaic fields with maximum 3 inverters connected on a single network entry point.



INPUT MODULES CONFIGURATION FOR SINGLE INVERTER

	2.100 W TL	3.000 W TL - 2MPPT	4.500 W TL - 2MPPT	6.000 W TL - 2MPPT
Total number of strips	1	2	2	2
280Wp modules for each strip	5 ÷ 8	4 ÷ 6	6 ÷ 9	7 ÷ 12
Maximum number of installable modules	8	12	18	24

Order Code	Description	Notes
15760	2100 W TL inverter	Anti-theft system and energy production data monitoring
15761	3000 W TL 2MPPT inverter	Anti-theft system and energy production data monitoring
15762	4500 W TL 2MPPT inverter	Anti-theft system and energy production data monitoring
15763	6000 W TL 2MPPT inverter	Anti-theft system and energy production data monitoring

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	2.100 W TL	3.000 W TL - 2MPPT	4.500 W TL - 2MPPT	6.000 W TL - 2MPPT
Input parameters				
Maximum DC power	2.3 kW	3,45 kW	5,15 kW	6.72 kW
MPPT voltage interval	125-530 (rated 290)	125-530 (rated 290)	125-530 (rated 330)	125-530 (rated 420)
Maximum DC voltage	600 V	600 V	600 V	600
Activation voltage	150 V	150 V	150 V	200
Independent MPPTs	1	2	2	2
Maximum power per MPPT	2.3 kW	1.725 kW	2.575 kW	3.36 kW
No. of DC inputs	1	2	2	2
Maximum current per MPPT	10 A (12 short-circuit)	10 A (12 short-circuit)	10 A (12 short-circuit)	10 A (12 short-circuit)
Input protections				
Polarity inversion	Yes	Yes	Yes	Yes
DC-side varistors	2 + gas arrester to earth	4 + gas arrester to earth		2 + gas arrester to earth
Output parameters				
Rated power up to 50°C	2 kW	3 kW	4.5 kW	6 kW
Maximum power	2.2 kW	3.3 kW	4.9 kW	6.3 kW
	Single-phase 230 VAC 50 Hz PE			
Rated voltage between phase and neutral	230 V	230 V	230 V	230 V
Rated network frequency	50 Hz	50 Hz	50 Hz	50 Hz
Rated current per phase	8.7 A	13 A	19.6 A	26 A
Maximum current per phase	10.5 A	15.6 A	23.5 A	30 A
AC connection	Bayonet connector; for 4 mm ² cable, Ø 16-18 mm		Bayonet connector; for 6 mm ² cable, Ø 16-18 mm	
Power factor	1	1	1	1
Total harmonic distortion (THD%) - AC	< 4.0% at rated power, with sinusoidal mains voltage			
Output protections				
AC-side varistors per phase	2 + gas arrester to earth			
Earth leakage measurement	Conforms to VDE 0126-1-1 and CEI 64-8 regulation (type-B RCD as per IEC 60755/A2)			
Conversion efficiency				
Maximum efficiency	96 %	96 %	96 %	96 %
European efficiency	95 %	95 %	95 %	95 %
Environmental parameters				
	Forced with dedicated fan			
	-20 / +60 (power derating above 50°)			
Acoustic noise (dBA)	<50 with fan activated			
Protection rating	IP65	IP65	IP65	IP65
Mechanical parameters				
Dimensions	380 x 580 x 180 mm	380 x 580 x 180 mm	380 x 580 x 180 mm	550 x 580 x 200
Weight	15 kg	18 kg	22 kg	30 kg
Other information				
Night-time consumption	0,3 W	0,3 W	0,3 W	0,3 W
Stand-by mode consumption	8 W	8 W	8 W	8 W
Insulation	Not insulated, transformerless	Not insulated, transformerless	Not insulated, transformerless	Not insulated, transformerless
Display	Yes	Yes	Yes	Yes
Transmission	RS485; Radio FH-DSSS			
	See calibrations table			
	Static converter unsuitable for withstanding the voltage and frequency within the rated range (static conversion device that behaves like a current generator)			
Firmware version	1.0	1.0	1.0	1.0
Contribution to the short-circuit current	15 A	23 A	35 A	45 A
	Integrated protection device against entry of DC component in the network. Limitation of the DC component entering the network through a dedicated control algorithm. Monitoring of the value and variation speed of the DC component introduced into the network, through DC-sensitive sensors.			