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Beghelli Solar DATA Gate FH-DSSS radio transmission system

> Integrated interface protection system (IPS)

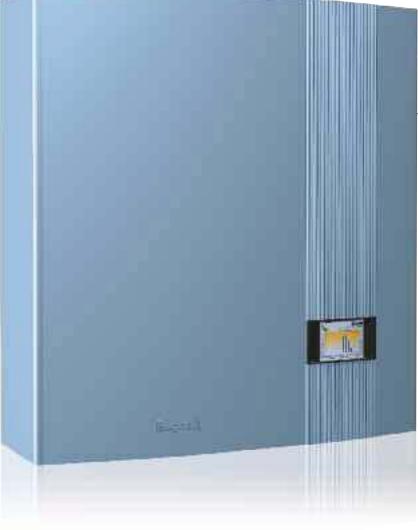
Complies with the "Guide for connections to the ENEL Distribuzione electricity network"

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

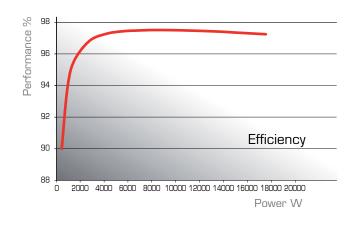
> MPPT algorithm optimised for continuous maximum power point tracking

Colour touchscreen display

High conversion efficiency



Three-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 plant from the ENEL electricity network. Monitoring and remote management are possible with the addition of the GSM module, without requiring any 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

	9.000 W TL - 2MPPT	12.000 W TL - 2MPPT	18.000 W TL - 2MPPT
Total number of strips	2	4	4
280Wp modules for each strip	12 ÷ 19	12 ÷ 19	12 ÷ 19
Maximum number of installable modules	37	49	73

Order Code	Description	Notes
15764	9000 W TL inverter	Anti-theft system and energy production data monitoring
15765	12000 W TL inverter	Anti-theft system and energy production data monitoring
15766	18000 W TL inverter	Anti-theft system and energy production data monitoring

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	9.000 W TL - 2MPPT	12.000 W TL - 2MPPT	18.000 W TL - 2MPPT	
Input parameters				
Maximum DC power	10.3 kW	13.8 kW	20.6 kW	
/IPPT voltage interval	335-530 V (rated 420)	335-530 V (rated 420)	335-530 V (rated 420)	
laximum DC voltage	1.000 V	1.000 V	1.000 V	
ctivation voltage	360 V	360 V	360 V	
dependent MPPTs	2	2	2	
laximum power per MPPT	5.15 kW	6.9 kW	10.3 kW	
o. of DC inputs	2 (for each MPPT)	4 (2 for each MPPT)	4 (2 for each MPPT)	
laximum current per MPPT	10 A (12 short-circuit)	20 A (24 short-circuit)	20 A (24 short-circuit)	
nput protections				
versione polarità	Yes	Yes	Yes	
aristori lato DC	2 + gas arrester to earth	2 + gas arrester to earth	2 + gas arrester to earth	
utput parameters				
ated power up to 50°C	9 kW	12 kW	18 kW	
aximum power	9.9 kW	13.2 kW	19 kW	
nnection to the AC network	Three-phase 230VAC 50Hz + PE + N	Three-phase 230VAC 50Hz + PE + N	Three-phase 230VAC 50Hz + PE + N	
ated voltage between phase and neutral	230 V	230 V	230 V	
ated network frequency	50 Hz	50 Hz	50 Hz	
ated current per phase	13 A	17.4 A	26 A	
laximum current per phase	15.6 A	19.1 A	30 A	
C connection	Three-phase terminal board for 4 $\rm mm^2$ cables, Ø 16-18 mm	Three-phase terminal board	for 6 mm2 cables, Ø 16-18 mm	
ower factor	1	1	1	
tal harmonic distortion (THD%) - AC	< 4	1.0% at rated power, with sinusoidal mains	voltage	
Output protections				
C-side varistors per phase	2 + gas arrester to earth	2 + gas arrester to earth	2 + gas arrester to earth	
arth leakage measurement	Co	Conforms to VDE 0126-1-1 and CEI 64-8 regulation (type-F RCD as per IEC 60755/A2)		
Conversion efficiency				
aximum efficiency	97.5 %	97.5 %	97.5 %	
uropean efficiency	97 %	97 %	97 %	
nvironmental parameters				
ooling	Forced with dedicated fan	Forced with dedicated fan	Forced with dedicated fan	
	-20 / +60 (power derating above 50°)			
coustic noise (dBA)	<50 with fan activated	<50 with fan activated	<50 with fan activated	
rotection rating	IP65	IP65	IP65	
Nechanical parameters				
imensions	550 x 580 x 200 mm	550 x 580 x 200 mm	550 x 580 x 200 mm	
/eight	45 kg	48 kg	50 kg	
ther information				
ight-time consumption	0,3 W	0,3 W	0,3 W	
tand-by mode consumption	8 W	8 W	8 W	
sulation	Not insulated, transformerless	Not insulated, transformerless	Not insulated, transformerless	
isplay	Yes	Yes	Yes	
ransmission	RS485; Radio FH-DSSS	RS485; Radio FH-DSSS	RS485; Radio FH-DSSS	
tegrated protection and interface device	See calibrations table	See calibrations table	See calibrations table	
pe of converter		ng the voltage and frequency within the rate		
rmware version	1.0	1.0	1.0	
ontribution to the short-circuit current	23 A per phase	28.7 A per phase	45 A per phase	
mitation of the DC component ntering the network	Integrated protection device against entry	y of DC component in the network. Limitation on the value and variation speed of	on of the DC component entering the net	