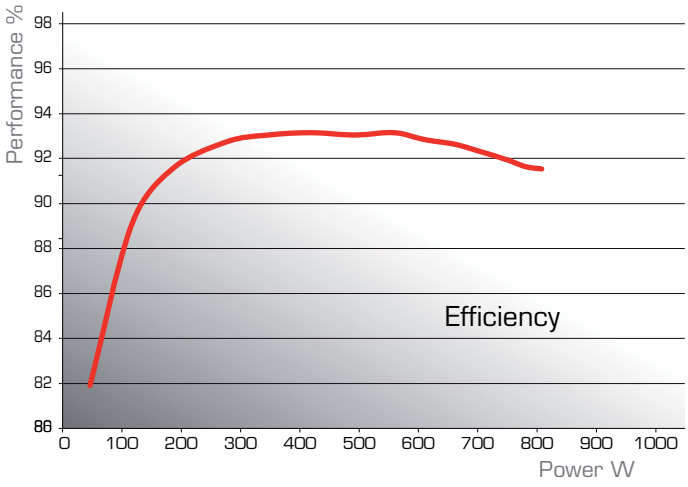
Inverters with transformer 0,93 - 1,1 Kw

Beghelli Solar DATA Gate FH-DSSS radio transmission system

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

Optimised MPPT algorithm for continuous maximum power point tracking

Single-phase inverter, with isolation transformer configured for 50 Hz network frequency, suitable for grid connection also in three-phase systems, with Beghelli Solar DATA Gate FH-DSSS radio transmission for connection to the PianetaSole control panels.
TÜV Rheinland Certificate no. AK60028630 according to the "Guide for connections to the ENEL Distribuzione electricity network".



INPUT MODULES CONFIGURATION FOR SINGLE INVERTER

	930 W	1.100 W
Total number of strips	***1***	***1***
280Wp modules for each strip	3	4
Maximum number of installable modules	***3***	***4***

Order Code	Description	notes
15730	930 W Beghelli inverter	Integrated anti-theft system
15731	1100 W Beghelli inverter	Integrated anti-theft system

	930 W	1100 W
Input parameters		
Maximum DC power	965W	1150W
MPPT voltage interval	85÷185V (rated 110)	115÷200V (rated 145)
Maximum DC voltage	200V	250V
Activation voltage	110V	150V
Independent MPPTs	1	1
Maximum power per MPPT	965W	1150W
No. of DC inputs	1	1
Maximum current per MPPT	9.0A	8.25A
Input protections and connections		
DC-side disconnection	External bi-polar disconnect switch in IP66 casing	External bi-polar disconnect switch in IP66 casing
Polarity inversion	Yes	Yes
DC-side varistors	2 + gas arrester to earth	2 + gas arrester to earth
DC Input	1 input with 2 MC4-type snap-in plugs	
Output parameters		
Rated output power	840W	1000W
Maximum output power	930W	1100W
Connection to the AC network	Single-phase 230 VAC 50 Hz + PE	Single-phase 230 VAC 50 Hz + PE
Rated output voltage	230Vac	230Vac
Rated output current	3.48A	4,35A
Maximum output current	4A	4,80A
Maximum short-circuit output current	7A	8,70A
Rated frequency	50 +/- 2% Hz	50 +/- 2% Hz
Power factor	0.997	0.997
Output protections and connections		
AC-side disconnection	Bi-polar rotating disconnect switch on the inverter	
AC-side varistors	2 + gas arrester to earth	
Measuring device for leakage currents following earth malfunctions (AC/DC-sensitive type A and F RCD)	Conforms to VDE 0126-1-1 and CEI 64-8 regulation (type-F RCD as per IEC 60755/A2)	Conforms to VDE 0126-1-1 and CEI 64-8 regulation (type-F RCD as per IEC 60755/A2)
AC Output	1 connector with locking nut, IP68, with terminals, suitable for clamping a sheathed three-pole cable 3 x 2.5 mm^2 (Neutral, Live and Earth)	
Motor Output	1 IP68 connector with locking nut for connecting the linear actuator provided, with the appropriate power supply connections (36 VDC) and control connections	
Isolation	Incorporated isolation transformer configured for mains voltage, with class II insulation.	Incorporated isolation transformer configured for mains voltage, with class II insulation.
Conversion efficiency		
Maximum efficiency	93%	93%
European efficiency	91%	91%
Environmental parameters		
Operating temperature range	-20 ÷ +60 °C	-20 ÷ +60 °C
Protection rating	IP66	IP66
Cooling	Natural aeration, without fans	Natural aeration, without fans
Mechanical parameters		
Dimensions	400x200x130 mm	400x200x130 mm
Weight	10 Kg	10 Kg
Other information		
Stand-by mode absorption	1,2W	1,2W
MTBF (mean time between failures)	153000 hours (at 20°C)	153000 hours (at 20°C)
Transmission	Radio FH-DSSS	Radio FH-DSSS
Firmware version as at 10-12-2008 (Annex F DK5940)	V1.14	V1.25
Type of converter	Static converter unsuitable for withstanding the voltage and frequency within the rated range (static conversion device that behaves like a current generator)	
Contribution to the short-circuit current	6A	7.2A
Make	Beghelli S.p.A.	Beghelli S.p.A.
Model	291.005.001	291.005.003