### **INVERTERS**





# Hybrid Inverter (Three Phase)

#### **Main Features**

Supplied with switch A.D

Transformerless technology RS485 monitoring | WiFi |

CAN2.0 | Ethernet | bluetooth IP65 degree of protection Noise level <45dB

Ambient temperature between -30°C and +60°C

Relative humidity between 0 and 100%

Operation up to 4000 meters altitude

Up to 2 battery inputs

Convection cooling natural (5000W to 8000W models) Ventilation cooling forced (10000W models at 20000W) Injection 0 with sensor chain included Three-phase Smart Meter included Record consumption with graphical visualization in the APP Possibility of on-grid and off-grid operation

EPS function activated in

**less than 10ms** (Allow a smooth transition from on-grid to offgrid operation during an interruption. provides power even during an interruption in supply from the electrical network)

#### **Product Description**

Hybrid inverter (three-phase) equipped with battery charge regulator. Nominal Output Power from 5000W to 20000W.

All models are part of the DGEG inverter exchange

200V

Starting Voltage

200V

### **Models and Prices**

Code	Model	Code	Model
2704-9810	5000W Hybrid Inverter (Three Phase)	2704-9829	10000W Hybrid Inverter (Three Phase)
2704-9811	6000W Hybrid Inverter (Three Phase)	2704-9820	15000W Hybrid Inverter (Three Phase)
2704-9812	8000W Hybrid Inverter (Three Phase)	2704-9809	20000W Hybrid Inverter (Three Phase)

All models made to special order.

200V

200V

200V

TECHNICAL DATA	5000W	6000W	8000W	10000W	15000W	20000W	
PARAMETERS BATTERIES							
Battery Type	Li-Ion (Lithium Ions)	Li-Ion (Lithium Ions)	Li-Ion (Lithium Ions)	Li-Ion (Lithium Ions)	Li-Ion (Lithium Ions)	Li-Ion (Lithium Ions)	
Inputs for Batteries	1	1	1	two	100	two	
Battery Voltage	180V - 800V	180V - 800V	180V - 800V	180V - 800V	180V - 800V	180V - 800V	
Battery Voltage for Total Load	200 - 800V	240 - 800V	320 - 800V	200 - 800V	300 - 800V	400 - 800V	
Pot. Nom. Charge / Discharge	5000W	6000W	8000W	10000W	15000w	20000W	
Max Current Charge discharge	25A	25A	25A	50A (25A/25A)	50A (25A/25A)	50A (25A/25A)	
Loading the Battery	Self-Adapting BMS Self-Adapting BMS Self-Adapting BMS Self-Adapting BMS Self-Adapting BMS Self-Adapting BMS						
Communication	CAN (RS485)	CAN (RS485)	CAN (RS485)	CAN (RS485)	CAN (RS485)	CAN (RS485)	
PV INPUT (DC)							
Maximum PV Power	7500Wp (6000Wp/6600Wp)	9000Wp (6600Wp/6600Wp)	12000Wp (6600Wp/6600Wp)	15000Wp (7500Wp/7500Wp)	22500Wp (11250Wp/11250Wp)	30000Wp (15000Wp/15000Wp)	
Maximum DC Voltage	1000V	1000V	1000V	1000V	1000V	1000V	

200V

# **INVERTERS**



Voltage Range MPPT	180V - 960V	180V - 960V	180V - 960V	180V - 960V	180V - 960V	180V - 960V
Nominal Voltage A.D	600V	600V	600V	600V	600V	600V
MPPT Voltage (Load Maximum)	250V - 850V	320V - 850V	360V - 850V	220V - 850V	350V - 850V	450V - 850V
Maximum Current	12.5A / 12.5A	12.5A / 12.5A	12.5A / 12.5A	25A / 25A	25A / 25A	25A / 25A
Max Current Short circuit	15A / 15A	15A / 15A	15A / 15A	30A / 30A	30A / 30A	30A / 30A
MPPT number	heo	140	teo	two	heo	two
Number of Strings/MPPT	1	1	1	56	teo	50
AC OUTPUT (NETWORK)						
Rated power	5000W	6000W	8000W	10000W	15000W	20000W
Max power for Network	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA
Max power of Network	10000VA	12000VA	16000VA	20000VA	30000VA	40000VA
Max current for Network	8A	10A	13A	16A	24A	32A
Max current	15A	17A	24A	29A	44A	58A
Rated voltage	3/N/PE , 400Vac	3/N/PE , 400Vac	3/N/PE , 400Vac	3/N/PE , 400Vac	3/N/PE , 400Vac	3/N/PE , 400Vac
Nominal frequency from the Web	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
from the Web AC OUTPUT (BACK-	50Hz 5000W	50Hz 6000W	50Hz 8000W	50Hz 10000W	50Hz 15000W	50Hz 20000W
from the Web AC OUTPUT (BACK- UP)						
from the Web AC OUTPUT (BACK- UP) Rated power	5000W	6000W	8000W	10000W	15000W	20000W
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power Peak Power	5000W 5500VA	6000W 6600VA	8000W 88000A	10000W 11000VA	15000W 16500VA	20000W 22000VA
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current	5000W 5500VA 10000VA	6000W 6600VA 12000VA	8000W 8800VA 16000VA	10000W 11000VA 20000VA	15000W 16500VA 22000VA	20000W 22000VA 22000VA
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power Peak Power (60sec.) Maximum Current	5000W 5500VA 10000VA 8A	6000W 6600VA 12000VA 10A	8000W 8800VA 16000VA 13A	10000W 11000VA 20000VA 16A	15000W 16500VA 22000VA 24A	20000W 22000VA 22000VA 32A
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current (60sec.)	5000W 55500VA 10000VA 8A 15A	6000W 6600VA 12000VA 10A 18A	8000W 8800VA 16000VA 13A 24A	10000W 11000VA 20000VA 16A 30A	15000W 16500VA 22000VA 24A 32A	20000W 22000VA 22000VA 32A 32A
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current (60sec.) Rated voltage	5000W 5500VA 10000VA 8A 15A 3/N/PE ,400Vac	6000W 6600VA 12000VA 10A 18A 3/N/PE ,400Vac	8000W 8800VA 16000VA 13A 24A 3/N/PE ,400Vac	10000W 11000VA 20000VA 16A 30A 3/N/PE ,400Vac	15000W 16500VA 22000VA 24A 32A 3/N/PE ,400Vac	20000W 22000VA 22000VA 32A 32A 3/N/PE , 400Vac
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current (60sec.) Rated voltage Nominal frequency	5000W 5500VA 10000VA 8A 15A 3/N/PE ,400Vac	6000W 6600VA 12000VA 10A 18A 3/N/PE ,400Vac	8000W 8800VA 16000VA 13A 24A 3/N/PE ,400Vac	10000W 11000VA 20000VA 16A 30A 3/N/PE ,400Vac	15000W 16500VA 22000VA 24A 32A 3/N/PE ,400Vac	20000W 22000VA 22000VA 32A 32A 3/N/PE , 400Vac
from the Web          AC OUTPUT (BACK-UP)         Rated power         Maximum AC Power         (60sec.)         Maximum Current         Peak Current         (60sec.)         Rated voltage         Nominal frequency         EFFICIENCY	5000W 5500VA 10000VA 8A 15A 3/N/PE , 400Vac 50Hz	6000W 6600VA 12000VA 10A 18A 3/N/PE ,400Vac 50Hz	8000W 8800VA 16000VA 13A 24A 3/N/PE , 400Vac 50Hz	10000W 11000VA 20000VA 16A 30A 3/N/PE , 400Vac 50Hz	15000W 16500VA 22000VA 24A 32A 3/N/PE , 400Vac 50Hz	20000W 22000VA 22000VA 32A 32A 3/N/PE ,400Vac 50Hz
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current (60sec.) Rated voltage Nominal frequency EFFICIENCY EURO efficiency	5000W 5500VA 10000VA 8A 15A 3/N/PE ,400Vac 50Hz 97.5%	6000W 6600VA 12000VA 10A 10A 18A 3/N/PE ,400Vac 50Hz 97.5%	8000W 8800VA 16000VA 13A 24A 3/N/PE ,400Vac 50Hz 97.5%	10000W 11000VA 20000VA 16A 30A 3/N/PE ,400Vac 50Hz 97.7%	15000W 16500VA 22000VA 24A 32A 3/N/PE , 400Vac 50Hz 97.7%	20000W 22000VA 22000VA 32A 32A 3/N/PE , 400Vac 50Hz 97.7%
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current (60sec.) Rated voltage Nominal frequency EFFICIENCY EURO efficiency Maximum Efficiency	5000W 5500VA 10000VA 8A 15A 3/N/PE , 400Vac 50Hz 97.5% 98.0%	6000W 6600VA 12000VA 10A 10A 18A 3/N/PE ,400Vac 50Hz 97.5%	8000W 8800VA 16000VA 13A 24A 3/N/PE , 400Vac 50Hz 97.5% 98.0%	10000W 11000VA 20000VA 16A 30A 3/N/PE , 400Vac 50Hz 97.7% 98.2%	15000W 16500VA 22000VA 24A 32A 3/N/PE , 400Vac 50Hz 97.7% 98.2%	20000W 22000VA 22000VA 32A 32A 3/N/PE , 400Vac 50Hz 97.7%
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power (60sec.) Maximum Current Peak Current (60sec.) Rated voltage Nominal frequency EFFICIENCY EURO efficiency Maximum Efficiency CHARACTERISTICS	5000W 5500VA 10000VA 8A 15A 3/N/PE , 400Vac 50Hz 97.5% 98.0%	6000W 6600VA 12000VA 10A 18A 3/N/PE ,400Vac 50Hz 97.5% 98.0%	8000W 8800VA 16000VA 13A 24A 3/N/PE , 400Vac 50Hz 97.5% 98.0%	10000W 11000VA 20000VA 16A 30A 3/N/PE , 400Vac 50Hz 97.7% 98.2%	15000W 16500VA 22000VA 24A 32A 3/N/PE , 400Vac 50Hz 97.7% 98.2%	20000W 22000VA 22000VA 32A 32A 3/N/PE , 400Vac 50Hz 97.7%
from the Web AC OUTPUT (BACK- UP) Rated power Maximum AC Power Peak Power (60sec.) Maximum Current Peak Current (60sec.) Rated voltage Nominal frequency EFFICIENCY EURO efficiency Maximum Efficiency CHARACTERISTICS Dimensions	5000W 5500VA 10000VA 8A 15A 3/N/PE ,400Vac 50Hz 97.5% 98.0%	6000W 6600VA 12000VA 10A 18A 3/N/PE ,400Vac 50Hz 97.5% 98.0%	8000W 8800VA 16000VA 13A 24A 3/N/PE , 400Vac 50Hz 97.5% 98.0%	10000W 11000VA 20000VA 16A 30A 3/N/PE ,400Vac 50Hz 97.7% 98.2%	15000W 16500VA 22000VA 24A 32A 3/N/PE , 400Vac 50Hz 97.7% 98.2%	20000W 22000VA 22000VA 32A 32A 32A 3/N/PE , 400Vac 50Hz 97.7% 98.2%

