



D.P Electronics.e.K  
(Deutsche Power)

# PV ON-GRID INVERTER

Transformless GT Topology  
2V / 6V / 12V

Deutsche Power

**High Efficiency  
Leading Technology**

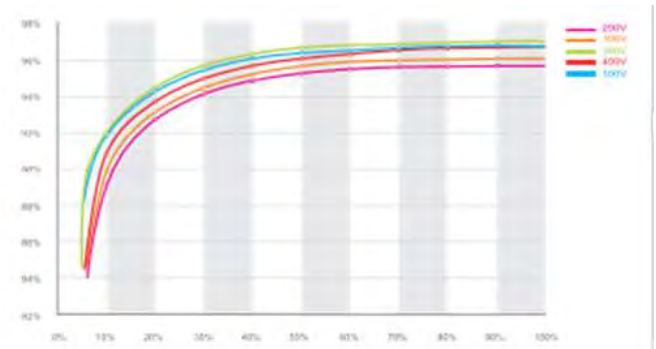
# PHOTOVOLTAIC INVERTER (ON-GRID )

DP Electronics e.K (Deutsche Power Co., Limited)



## Leading-Edge Technology

- Maximum efficiency of 97.8% and wide input voltage range
- Internal DC switch
- Transformerless GT topology
- Compact design
- MTL - String
- Bluetooth technology
- Sound control
- Easy installation



# PHOTOVOLTAIC INVERTER (ON-GRID )

Input Data	1500TL	2000TL	3000TL	4400TL	5000TL
Max. DC power	1800W	2300W	3200W	4600W	5000W
Max. DC voltage	450V	500V	500V	580V	580V
Full load Mpp-Voltage range	175V - 430V	195V -450V	250V -450V	250V -500V	250V - 500
PV voltage range MPPT	120V - 450V	120V -450V	120V -450V	120V - 500V	120V -500V
Max. number of parallel strings	1	2	2	3	3
Number of MPP trackers	1	1	1	1	1
Max. input current	10A	12A	15A	20A	20A
<b>Output (AC)</b>					
Nominal AC output power	1600W	2000W	2850W	4200W	4600W
Max. AC power	1650W	2000W	3000W	4400W	4600W
Max. output current	8A	11A	13A	21A	22.3A
AC voltage range	200V ac - 250V ac	200V ac - 250V ac	200V ac - 250V ac	200V ac - 250V ac	200V ac - 250V ac
AC grid frequency range	40.1Hz - 50.9Hz	40.1Hz - 50.9Hz	40.1Hz - 50.9Hz	40.1Hz - 50.9Hz	40.1Hz - 50.9Hz
Phase shift	1	1	1	1	1
THDI	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase
<b>Efficiency</b>					
DC reverse polarity protection	yes	yes	yes	yes	yes
AC short-circuit protection	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes
Integrated all-pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes
<b>Protection Devices</b>					
Max. efficiency	97%	97%	97%	97.8%	97.8%
Euro-eta	96%	96%	96.5%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
<b>General Data</b>					
Dimensions (W / H / D) in mm	362/329/132	362/329/132	362/329/132	406/406/192	406/406/192
Weight	11.5KG	11.7KG	12.2KG	21KG	21KG
Operating temperature range	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Noise emission (typical)	=25 dB(A)	=25 dB(A)	=25 dB(A)	=25 dB(A)	=25 dB(A)
Consumption: operating (standby)/ night	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W	< 5W / < 0.5 W
Topology	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling concept	No fan	No fan	No fan	No fan	No fan
Installation: Indoors /					
Outdoors (IP65 )	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes
Altitude	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating	Up to 2000m without power derating
Humidity	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation	0 ~ 95%, no condensation
<b>Features</b>					
DC connection:(MC3/MC4/H4)	opt /opt / yes	opt /opt / yes	opt /opt / yes	opt /opt / yes	opt /opt / yes
AC connection: Terminals	yes	yes	yes	yes	yes
LCD display	yes	yes	yes	yes	yes
Interfaces: Bluetooth/RS485/RS232	opt / yes / yes	opt / yes / yes	opt / yes / yes	opt / yes / yes	opt / yes / yes
Warranty: 5 years / 10 years	yes / opt	yes / opt	yes / opt	yes / opt	yes / opt