



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

# PV GRID-TIE CENTRAL & PV SOLAK INVERTER

GRID-TIE PV INVERTER  
(3 Phase)

**Maximum Efficiency**  
**Strong Compatibility**

# PV GRID-TIE CENTRAL AND PV GRID TIE SOLAK INVERTER

## PV Grid-Tie Solak Inverter (Transformerless, 3 Phase)

- Good cooling and safety design system
- MPPT efficiency > 99.9%
- Maximum efficiency >98%
- Three MPPT optimal energy harvesting
- Low sensitivity to grid disturbances
- Strong system compatibility
- Wide range of input voltage and operation environment
- Wide DC input range from 250V upto 850V
- Wide operating temperature range -20C ~ 60C
- Support a variety of communication interfaces
- Perfect protection functions
- IP65 harshest industrial protection for indoors & outdoors.
- RS232 / RS485 wifi interface
- Easy to read LCD display with all operational status and monitored data



## PV Grid-Tie Central Inverter (With Transformer, 3 Phase)

- Excellent cooling and safety design system
- More then 25 years of life span
- MPPT efficiency > 99.9%
- Maximum efficiency >98%
- Euro. Efficiency >98%
- Standby (night time) losses < 10W
- System with strong compatibility, easy to extend
- Redundancy control circuits designed-in and oversize metalized film capacitors are used to guarantee its safe operation and system reliability
- Reactive power adjustable
- Unique Low Voltage Ride Through (LVRT) Function, anti-islanding and output abnormal voltage protection secures its safe
- Active power adjustable continuous full range (0-100%)
- Advanced DSP Control makes data more accurate
- Support a variety of communication interfaces
- Perfect protection functions
- Support SVG function, the realization of power reactive compensation at night



# PV GRID TIE SOLAK INVERTER (Transformerless, 3 Phase)

## TECHNICAL SPECIFICATION

MODEL	GT55	GT110
Maximum DC Power	33KW	60KW
Maximum DC Voltage	1000VDC	
MPPT Range	250VDC ~ 850VDC	
MPPT Tracking	3	
Maximum Input Current	26Ax3	36Ax3
<b>OUTPUT</b>		
Rated Output Power	30KW	50KW
Rated AC Output Power	30.5KW	51KW
Rated AC Output Voltage	400VAC	
Output Voltage Range	400±20% adjustable	
AC Output Topology	3PH+N+PE Transformer-less	
Grid Frequency Range	50/60Hz (±5Hz), (adjustable)	
Rated AC Output Current	44A	72A
Max. AC Output Current	48A	75A
Power Factor (cos)	0.9 leading~0.9 lagging	
THDi	<3%	
<b>SYSTEM FEATURES</b>		
Max. Efficiency	>98.3%	
Euro. Efficiency	>97.9%	
MPPT Efficiency	99.9%	
Standby (night time) losses	<0.2W	
Cooling	Natural cooling	Forced air cooling
DC Switch	Optional	
Communication Interface	RS485 standard, external WiFi or Ethernet (optional)	
<b>ENVIRONMENTAL</b>		
Operating Temperature	- 20 °C ~ 60 °C	
Humidity Range	0~95% (non-condensing)	
Altitude	2000m	
Noise Level	40db	60db
Protection Rating	IP65	
<b>PHYSICAL</b>		
Dimension WxHxD (mm)	630×235×1000	
Net Weight (kg)	70	75
Safety	IEC/EN62109-1, IEC/EN62109-2, VDE0126-1-1, VDE AR N4105, G83/59/EEG2012, AS3100/4777, CEI 0-21,, NB/T 32004-2013,	
EMC	EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12	

DP Electronics e.K(Deutsche Power Co. Limited) has a policy of continuous product development and improvement and therefore reserve the right to vary any information without prior notes.

# PV GRID-TIE CENTRAL INVERTER (with Transformer, 3 Phase)

## TECHNICAL SPECIFICATION

MODEL	GT55	GT110	GT275	GT550	GT690
Maximum DC Power					
Maximum DC Voltage	900VDC				
MPPT Range	450VDC ~ 850VDC (Rated Voltage 576VDC)				
MPPT Tracking	1				
Maximum Input Current	120A	240A	600A	1200A	1440A
<b>OUTPUT</b>					
Rated Output Power	55KW	110KW	275KW	550KW	690KW
Rated Output Voltage	400VAC				
AC Output Topology	3Ph+N+PE				
Output Voltage Range	(1±15%) x Normal AC Voltage (adjustable ±5%,±10%,±15%,±20%)				
Grid Frequency Range	50/ 60Hz (±4.5Hz), (adjustable)				
Rated AC Output Current	72A	144A	361A	722A	909A
Max. AC Output Current	79A	158A	397A	794A	1000A
Power Factor (cos)	1 ( 0.9 leading – 0.9 lagging) (adjustable)				
THDi	<3%				
<b>SYSTEM FEATURES</b>					
Max. Efficiency	>97%	>97.5%	>97.6%	>98.1%	>98.1%
Euro. Efficiency	>96.5%	>96.9%	>97.0%	>97.6%	>97.6%
MPPT Efficiency	>99%				
Standby (night time) losses	<10W				
Cooling	Forced Air Cooling				
Communication Interface	RS485, Ethernet (Optional)				
<b>ENVIRONMENTAL</b>					
Operating Temperature	-40C ~ 50C				
Humidity Range	0~95% (non-condensing)				
Altitude	3000m				
Noise Level	<58db	<58db	<60db	<60db	<60db
Protection Rating	IP20				
<b>DIMENSION</b>					
Dimension WxHxD (mm)	600x1600x945	835x1850x945	1200x1850x945	1600x1850x945	1600x1850x945
Net Weight (kg)	520	900	1470	2800	3150
<b>STANDARDS</b>					
Safety	IEC/EN62109-1,IEC/EN62109-2,CNCA/CTS0004 :2009A,CNCA/CTS0006-2010,LVRT,etc				
EMC	IEC/EN61000-6-2, IEC/EN61000-6-4,etc				

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