



ENERGY WIZARD

PV-On-Grid Inverter
3,6 - 6 kW

The energy-wizard with
Plug & Play for easy installation,
commissioning and maintenance.

THE ADVANTAGES OF THE ENERGY-WIZARD AT A GLANCE

- Efficiency of up to 98.1%
- Up to 15A PV input current and up to 2 MPP trackers
- 10% continuous extra power of the AC output
- More operating hours due to low starting voltage
- OLED display and app for configuration and data management
- Compact size and elegant appearance
- Combinable with M-TEC Energy Butler
- Low operating noise



ENERGY-WIZARD FACTS AND FIGURES

Model	3.6kW-1P-3G	4.2kW-1P-3G	5kW-1P-3G	6kW-1P-3G
PV Input				
Start-up Voltage [V]	60			
Max. DC Input Voltage [V]	550			
Rated DC Input Voltage [V]	360			
MPPT Voltage Range* [V]	50-550			
No. of MPP Trackers	2	2	2	2
No. of DC Inputs per MPPT	1/1	1/1	1/1	1/1
Max. Input Current [A]	15/15	15/15	15/15	15/15
Max. Short-circuit Current [A]	20/20	20/20	20/20	20/20
AC-Side				
Rated Output Power [kW]	3,60	4,20	5,00 ⁴⁾	6,00
Max. Output Power [kW]	3,96 ¹⁾	4,60	5,50 ⁵⁾	6,00
Rated Output Apparent Power [kVA]	3,60	4,20	5,00 ⁶⁾	6,00
Max. Output Apparent Power [kVA]	3,96 ²⁾	4,60	5,50 ⁷⁾	6,00
Rated Voltage	L/N/PE; 230V			
Rated Frequency [Hz]	50/60	50/60	50/60	50/60
Rated Output Current [A]	15,70	18,30	21,70 ⁸⁾	26,10
Max. Output Current [A]	18,00 ³⁾	21,00 ⁹⁾	25,00 ⁹⁾	26,10
Power Factor	0.8 underexcited ...0.8 overexcited			
Max.Total Harmonic Distortion	<3% @Rated output power			
DCI	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Efficiency				
Max. Efficiency	98,1%	98,1%	98,1%	98,1%
European Efficiency	97,5%	97,5%	97,5%	97,5%
MPPT Efficiency	99,9%	99,9%	99,9%	99,9%
Protection				
DC Reverse Polarity Protection	Integrated			
Insulation resistance/monitoring	Integrated			
Overheating protection	Integrated			
Residual Current Protection	Integrated			
AC Over-voltage Protection	Integrated			
Overload Protection	Integrated			
AC Short-circuit Protection	Integrated			
General Data				
Over Voltage Category	PV: II Main: III			
Dimensions [W×H×D mm]	358×300×158			
Weight	9,8			
Protection Degree	IP65			
Self-Consumption at Night [W]	<1			
Topology	Transformerless			
Operating Temperature Range [°C]	-30~60			
Relative Humidity [%]	0~100			
Operating Altitude [m]	0~100% (not condensing)			
Cooling	Natural Convection			
Noise Level [dB]	<25			
Display	OLED & LED			
Communication	RS485, WiFi/LAN/GPRS (Optional)			

1) G98: 3.68kW; 2) G98: 3.68kVA; 3) G98: 16.00A; 4) VDE-AR-N 4105: 4.60kW; 5) AS 4777.2&C10/11: 5.0kW; VDE-AR-N 4105: 4.6kW; 6) VDE-AR-N 4105: 4.60kVA; 7) AS 4777.2&C10/11: 5.0kVA; VDE-AR-N 4105: 4.6kVA; 8) VDE-AR-N 4105: 20.00A; 9) AS 4777.2&C10/11: 21.7A; VDE-AR-N 4105: 20.0A;

