

# EU-ON GRID

Three Phase / On-grid / 50–80 kW



Max. PV Voltage up to 1100 V  
Type II DC / AC SPD



Reactive Power Control  
WiFi / 4G Plug Optional



DC / AC Ratio up to 1.5  
IP66 Protection



High Efficiency up to 98.6%  
Smaller and Lighter



MODEL	EU- OG/50KSF	EU- OG/80KSF
<b>Input (DC)</b>		
Max. DC Voltage	1100 V	1100 V
Nominal Voltage	650 V	650 V
Start Voltage	250 V	250 V
MPPT Voltage Range	200 V ~ 1000 V	200 V ~ 1000 V
Number of MPPT	4	4
Strings Per MPPT	2	3
Max. input Current Per MPPT	32 A	45 A
Max. Short-circuit Current Per MPPT	48 A	60 A
<b>Output (AC)</b>		
Nominal AC Output Power	50000 W	80000 W
Max. AC Apparent Power	55000 VA	88000 VA
Nominal AC Voltage	230 / 400 V, 3P+N+PE	230 / 400 V, 3P+N+PE
AC Grid Frequency Range	50 Hz / 60 Hz (±5Hz)	50 Hz / 60 Hz (±5Hz)
Max. Output Current (@220V)	83.3 A	127.5 A
Power Factor (cosΦ)	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
THDi	3%	3%
<b>Efficiency</b>		
Max. Efficiency	98.5%	98.6%
Euro Efficiency	98.2%	98.3%
<b>Protection Devices</b>		
DC Switch	Yes	Yes
Output Over Current Protection	Yes	Yes
Anti-islanding Protection	Yes	Yes
DC Reverse Polarity Protection	Yes	Yes
String Fault Detection	Optional	Optional
DC / AC Surge Protection	Type II	Type II
Residual Current Monitoring	Yes	Yes
AC Short Circuit Protection	Yes	Yes
<b>General Specifications</b>		
Dimensions (W x H x D)	548 x 540 x 289 mm	548 x 540 x 289 mm
Weight	51 kg	55 kg
Operating Temperature Range	-25°C ~+ 60°C	-25°C ~+ 60°C
Cooling Type	Fan Cooling	Fan Cooling
Max. Operating Altitude	4000 m	4000 m
Max. Operating Humidity	0 - 100% (No Condensation)	0 - 100% (No Condensation)
AC Output Terminal Type	OT terminal	OT terminal
IP Class	IP66	IP66
Topology	Transformer - less	Transformer - less
Communication	RS-485 / Wifi / 4G	RS-485 / Wifi / 4G
Display	LCD	LCD
Certification & Standard	EN/IEC 62109-1; EN/IEC 62109-2; IEC/EN 61000-6-1; IEC/EN 61000-6-3; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 60529; IEC 62116; IEC 61727; EN 50549-1; NC RfG; VDE-AR-N-4105; VDE 0126; CEI 0-21;	