

EEI MASTER SOLAR INVERTER 1000 V FOR UTILITY SCALE

EEI Master Solar Inverter 1000 is the solution for utility scale solar plants with 1000V DC design. Thanks to his high reliability and robustness it gives fast and safe return of investment.

Thanks to its wide MPPT voltage range Master Solar Inverters are suitable for different environments and locations all over the world, thanks to the flexible software configuration it can be use for different applications.

- Easy integration in all kind of containers thanks to reduced depth
- Highest power density for 1000V inverters on the market with 287kW/m³
- DC coupled battery ready with EEI DC Battery Charger
- Off grid operation when coupled with EEI DC Battery Charger



MODULAR
Easy configuration for all kind of project from small to multi MW



FLEXIBLE
Ready for DC coupled battery with EEI DC Battery Charger



RELIABLE
Equipped with latest power technology and design with more than 40 years of experience





MODEL	MASTER SOLAR 610	MASTER SOLAR 685	MASTER SOLAR 760
DC INPUT PARAMETERS			
Maximum Input Power	850 kW	950 kW	1.050 kW
Number of DC Inputs	Up to 6	Up to 6	Up to 6
Number of MPPT	1	1	1
MPPT Voltage range	525-850 V	590-850 V	650-850 V
Max DC Voltage (no load)	1000 V	1000 V	1000 V
Max input current	1135 A	1135 A	1135 A

AC OUTPUT PARAMETERS			
Rated AC power at cos =1 (at 50°C)	610 kVA	685 kVA	760 kVA
Rated AC power at cos =0,9 (at 50°C)	549 kW	615 kW	685 kW
Nominal voltage	320 V	360 V	400 V
Nominal frequency	50/60 Hz	50/60 Hz	50/60 Hz
Nominal frequency range	± 5%	± 5%	± 5%
Nominal Current	1095 A	1095 A	1095 A
Power Factor / Displacement power factor adjustable	1 / 0,9 Inductive to 0,9 capacitive	1 / 0,9 Inductive to 0,9 capacitive	1 / 0,9 Inductive to 0,9 capacitive
THD(I)	< 3%	< 3%	< 3%

EFFICIENCY			
Maximum / European efficiency	98,9 / 98,4 %	98,9 / 98,2 %	98,9 / 98,2 %

GENERAL DATA			
Degree of protection	IP 31	IP 31	IP 31
Dimensions (W / H / D)	2000 / 2200 / 600 mm	2000 / 2200 / 600 mm	2000 / 2200 / 600 mm
Weight	1250 kg	1250 kg	1250 kg
Operating temperature range	-10°C / +60°C	-10°C / +60°C	-10°C / +60°C
External auxiliary supply	230V 1Ph+N / 400V 3Ph	230V 1Ph+N / 400V 3Ph	230V 1Ph+N / 400V 3Ph
Max humidity (non-condensing) / Max altitude	95 % / asl 1000 m	95 % / asl 1000 m	95 % / asl 1000 m

PROTECTIONS			
Ground fault monitoring	Yes	Yes	Yes
Grid monitoring	Yes	Yes	Yes
Insulation monitoring	Yes	Yes	Yes
AC / DC over voltage and over current, over temperature	Yes	Yes	Yes

USER INTERFACE AND COMMUNICATIONS			
Local user interface	HMI	HMI	HMI
Fieldbus connectivity	Modbus, Ethernet	Modbus, Ethernet	Modbus, Ethernet

USER INTERFACE AND COMMUNICATIONS			
Safety and EMC	CE conformity according to LV and EMC directives	CE conformity according to LV and EMC directives	CE conformity according to LV and EMC directives
Certifications and approvals	Contact EEI	Contact EEI	Contact EEI
Grid support and grid functions	Reactive power compensation (day/ night), FRT, Anti islanding	Reactive power compensation (day/ night), FRT, Anti islanding	Reactive power compensation (day/ night), FRT, Anti islanding