

EEI MASTER SOLAR INVERTER 1500 V FOR UTILITY SCALE

EEI Master Solar Inverter 1500 is the solution for utility scale solar plants with 1500 V DC design.

Thanks to his robustness and new outdoor design it is the perfect solution for your solar plant reliable conversion unit.

The compact design permit to use EEI Master Solar Inverter 1500 also for small and medium scale solar farms helping to keep the lower LCOE even on small scale installations.

In the meantime the modular configuration and easy parallel concept of EEI Master Solar Inverter 1500 allows to deploy multi MW projects.



ROBUST
Compact outdoor design suitable
for all kind of environment



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 780	MASTER SOLAR 815	MASTER SOLAR 850
DC INPUT PARAMETERS			
Maximum Input Power	1090 kW	1140 kW	1.190 kW
Number of DC Inputs	Up to 6	Up to 6	Up to 6
Number of MPPT	1	1	1
MPPT Voltage range	890-1300 V	935-1300 V	980-1300 V
Max DC Voltage (no load)	1500 V	1500 V	1500 V
Max input current	885 A	885 A	885 A

AC OUTPUT PARAMETERS			
Rated AC power at cos =1 at 50°C)	780 kVA	815 kVA	850 kVA
Rated AC power at cos =0,9 at 50°C	866 kW	733 kW	765 kW
Nominal voltage	630 V	660 V	690 V
Nominal frequency	50/60 Hz	50/60 Hz	50/60 Hz
Nominal frequency range	± 5%	± 5%	± 5%
Nominal Current	715 A	715 A	715 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%
Distribution network type	TN-S	TN-S	TN-S

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

GENERAL DATA			
Degree of protection	IP 54	IP 54	IP 54
Dimensions (W / H / D)	2000 / 2000 / 750 mm	2000 / 2000 / 750 mm	2000 / 2000 / 750 mm
Weight	1450 kg	1450 kg	1450 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 1000m	95% / asl 1000m	95% / asl 1000m

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