EEI HYBRID INVERTER FOR A WIDE RENEWABLE ENERGY INTEGRATION

EEI Hybrid Inverter is the solution for small and medium scale hybrid plants using solar plus storage technologies. Thanks to his high reliability, robustness and flexible configuration it is the perfect inverter for mini and micro grid projects.
Solar arrays integration through EEI MPPT Sting Boost to increase solar production and optimize the power output.

- Easy integration in all kind of containers thanks to reduced depth
- Seamless transfer from grid forming mode to grid supporting mode
- DC coupled batteries for higher conversion efficiency
- Multiple independent DC battery inputs to increase reliability and safety of battery control.

	HYBRID 100	HYBRID 300
AC OUTPUT PARAMETERS		
Rated power at 50 °	100 kW	360 kW
Nominal voltage	400V 3Ph	400V 3Ph
AC Voltage range	+10% /-10%	+10% /-10%
Nominal frequency	50 / 60 Hz	50 / 60 Hz
Nominal frequency range	± 5%	± 5%
Nominal Current	145 A	476 A
Power factor range (PQ dispatch)	adjustable between 0.8 and 1	adjustable between 0.8 and 1
Max Admissible Short Circuit Current	35 kA	35 kA
THD(I)	< 3%	< 3%

	HYBRID 100	HYBRID 300
DC SIDE PARAMETERS		
Max charge /discharge Power	100 kW	330 kW
N. of inputs	2	3
Max. Input Current	200 A	510 A
Input Voltage range	500 ÷ 730 VDC	650 ÷ 1000 VDC
Breaking capacity per input	50 kA	50 kA
Electric Interface	DC Disconnector + Fuses	DC Disconnector + Fuses

	HYBRID 100	HYBRID 300
PV INPUT PARAMETERS		
N°of inputs for MPPT String BoostBoost	2	4
Maximum DC current per inputinput	100 A	150 A

	HYBRID 100	HYBRID 300
EFFICIENCY		
Maximum	> 97,5 %	> 97,5 %

	HYBRID 100	HYBRID 300
GENERAL DATA		
Dimensions (W / H / D)	1200 / 2300 / 600 mm	1800 / 2450 / 600 mm
Weight	692kg	1300kg
Operating temperature range	0°C / +50°C	0°C / +50°C
Max humidity (non-condensing) / Max altitude	95% / asl 2000m	95% / asl 2000m

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PROTECTIONS		
PV side disconnection device	MCCB	MCCB
EMC filter	Included	Included
AC-side disconnection device	AC circuit breaker	AC circuit breaker
AC overvoltage protection	Surge Suppressors	Surge Suppressors
PV DC overvoltage protection	Surge Suppressors	Surge Suppressors
RCM	Included	Included