

Energy Storage Inverter



FEATURES



Compatible with high power PV modules with 18A



Support 100% unbalanced loads



< 10ms UPS-level switching



Support up to 10 units parallel connections



Remote firmware upgrade & work mode setting



Support VPP / FFR function

Energy Storage Inverter

Model	CSTN3-HV-10.0
PV Input Data	
Recommended Max. PV Power [Wp]	15000
Max. PV Input Voltage [V]	1000
MPPT Voltage Range [V]	180 ~ 960
Rated PV Input voltage [V]	600
Start-up Voltage [V]	160
No. of MPP Trackers	2
No. of Input Strings per Tracker	1
Max. Input Current per MPPT [A]	18 / 18
Max. Short-circuit Current per MPPT [A]	23
AC Output Data	
Rated AC Power [W]	10000
Rated AC Current [A]	11000
Rated AC Voltage / Range [V]	20000
Grid Frequency / Range [Hz]	15.2
Adjustable Power Factor(cosΦ)	3 / N / PE,220 / 380,230 / 400
Output THDi (@Rated Output)	50 / 60
Output THDi (@Rated Output)	0.8 leading~0.8 lagging
Output THDi (@Rated Output)	< 3%
AC Input Data	
Max .apparent AC Power [VA]	Lithium
Max. AC Current [A]	160 ~ 700
Rated AC Voltage / Range [V]	10000
Grid Frequency / Range [Hz]	30
Grid Frequency / Range [Hz]	CAN
Battery Data	
Battery Type	10000
Battery Voltage Range [V]	3 / N /PE,220 / 380,230 / 400
Max. Charging / Discharging Current [A]	50 / 60
Communication Interface	15.2
EPS Rated Power [W]	< 3%
EPS Rated Voltage [V]	< 10
EPS Rated Frequency [Hz]	15000,60

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Model	CSTN3-HV-10.0
Efficiency	
Max. Efficiency	98.00%
Euro Efficiency	97.70%
Max.Battery Charge / Discharge Efficiency	97.60%
Protection	
DC Insulation Monitoring	Integrated
Input Reverse Polarity Protection	Integrated
Anti-island Protection	Integrated
Residual Current Monitoring	Integrated
Over-heat Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short-circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC Surge Protection	Integrated
AC Surge Protection	Type II
AC Surge Protection	Type II
General Data	
Size (Width * Height * Depth) [mm]	520 * 412 * 186
Weight [kg]	27
User Interface	LED + OLED
Communication	RS485 and USB or Wifi or 4G (Optional)
Operating Temperature Range [°C]	-25 ~ +60
Relative Humidity	0 ~ 100%
Operating Altitude [m]	≤ 4000
Standby Self Consumption [W]	< 15
Topology	Transformerless
Cooling	Natural
Enclosure	IP65
Noise [dB]	< 35
Warranty [years]	5 / 10
Certifications & Standards	
Grid Regulation	VDE-AR-N 4105, EN 50549-1, VDE 0126, CEI 0-21, EN 50549-PL, ÖVE/ÖNORM E 8001-4-712, EN50549-CZ
Safety Regulation	IEC 62109-1, IEC 62109-2
EMC	IEC 61000-6-1, IEC 61000-6-3