

Energy Storage Inverter



FEATURES



150% DC input oversizing



Charging / discharging efficiency >97%



Support VPP / FFR function



Up to 6000W charging / discharging rate



Remote firmware upgrade & work mode setting



EU standard certified by TÜV Rheinland

Energy Storage Inverter

Model	CSTN1-HV-6.0
PV Input Data	
Recommended Max. PV Power [Wp]	9000
Max. PV Input Voltage [V]	600
MPPT Voltage Range [V]	120 ~ 550
Rated PV Input Voltage [V]	360
Start-up Voltage [V]	150
No. of MPP Trackers	2
No. of Input Strings per Tracker	1
Max. Short-circuit Current per MPPT [A]	13.5 / 13.5
Max. Input Current per MPPT [A]	17 / 17
AC Input / Output Data (On-grid)	
Rated AC Power [W]	6000
Rated AC Current [A]	26.1
Rated AC Voltage / Range [V]	220/230;160~290
Grid Frequency / Range [Hz]	50 / 60; ± 5
Adjustable Power Factor(cos Φ)	0.8leading~0.8lagging
Output THDi (@Rated Output)	< 2%
Battery Data	
Battery Type	Lithium
Battery Voltage Range [V]	80 ~ 450
Max. Charging / Discharging Current [A]	25
Max. Charging / Discharging Power [W]	6000 / 6000
Communication Interface	CAN
EPS Output Data (With Battery)	
EPS Rated Power [W]	6000
EPS Rated Voltage [V]	220 / 230
EPS Rated Frequency [Hz]	50 / 60
EPS Rated Current [A]	26.1
Output THDi (@Rated Output)	< 2%
Automatic Switch Time [s]	< 0.5
Peak Apparent Power, Duration [VA, s]	7200, 600

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Model	CSTN1-HV-6.0
Efficiency	
Max. Efficiency	97.50%
Euro Efficiency	97.20%
Battery Charge / Discharge Efficiency	97.20%
Protection	
DC Insulation Monitoring	Integrated
Insulation impedance detection	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(Type III)
AC Surge Protection	Integrated(Type III)
General Data	
Size (Width * Height * Depth) [mm]	506 * 386 * 170
Weight [kg]	20
User Interface	LED + OLED
Communication	RS485 and USB or Wifi or 4G(Optional)
Ambient Temperature Range (°C)	-30 ~ +60
Relative Humidity	0 ~ 95%
Operating Altitude [m]	4000
Standby Self Consumption [W]	< 15 for hot standby, < 3 for cold standby
Topology	Transformerless
Cooling	Natural
Enclosure	IP65
Noise [dB]	35
Warranty [years]	5 / 7 / 10
Certifications & Standards	
Grid Regulation	AS 4777, EN 50549-1, IEC 61727, CEI 0-21, VDE 0126, UNE 217002, NC RfG type A
Safety Regulation	IEC 62109-1, IEC 62109-2, IEC 62040, IEC 62477
EMC	EN 61000-6-1, EN 61000-6-3