Three Phase Hybrid ESS Single Phase Hybrid ESS Three-Phase Hybrid Energy Storage Inverter Single-Phase Hybrid Energy Storage Inverter Single-Phase String Inverter

STRONG

ENERGY



WE MAKE GREEN ENERGY STRONG



STRONG Energy

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High-Voltage Residential Energy Storage Low-Voltage Residential Energy Storage

STRONG Energy Household **ESS Solution Product Brochure**

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ABOUT STRONG Energy

Strong Energy, as part of the Strong Group, has deep roots in the European market since 1986, serving more than 20 million European families. Based on the advantages and experience of the parent company Skyworth in the field of new energies and its service team localized in Europe, Strong Energy started to introduce inverters, energy storage batteries and system solutions in Europe from mid-2023, following the trend of clean energy development to make a positive contribution to global environmental protection. Strong Energy's parent company Skyworth is already world-renowned as a consumer electronics company for its smart tvs, digital set-top boxes and other products.

The company has more than 40,000 employees worldwide, 20 national high-tech companies and two publicly traded companies. With its powerful intelligent manufacturing and its system integration and supply chain management capabilities, the company entered the household photovoltaic market in 2020.

Why STRONG Energy?

We Make Green Energy Strong

Service



We give our customers confidence and security based on our high-quality requirements. Our local Germany team offers 360° premium quality in pre-sales and after-sales support.

As part of the Strong Group, we have been deeply rooted in the European market since 1986, supporting more than 20 million European families. We are a fast-growing group with more than 5 GW of experience in photovoltaic construction from our parent company Skyworth.

Capacity

Our production capacity allows us to manufacture over 20,000 photovoltaic systems in a single month.

Single Source

We offer our customers, tailor-made clean energy solutions and comprehensive services from a single source.

Product Family



High-Voltage Residential Energy Storage



Low-Voltage Residential Energy Storage



Three Phase Hybrid ESS ALFRED Datasheet

Specification

System Schematic

reddot winner 2024

ge of Three Phase Hybrid ESS ALFRED

System Parameters	
Number of Batteries	5 - 10
Battery Total Energy	12-24 kWh
Degree of Protection	IP65
Operation Temperature Range	-25°C ~ 60°C
Allowable Relative Humidity Range	5% - 95%
Max. Operating Altitude	4000 m
Weight (Standard Package)	215.3 kg / 6 Batteries
Dimension (W) x (H) x (D) (Standard Package)	780 x 1760 x 240mm / 6 Batteries
Display	APP & LED indicator
Communication	RS485/CAN (for BMS), RS485, DRM, RS485 (for Meter), Wi-Fi & LAN
Inverter Module	
Nominal AC Output Power	10,000 W
Max. AC Apparent Power	11,000 VA
Max. AC Output Power (PF=1)	11,000 W
Max. AC Output Current	3*16.7 A
Nominal Grid Voltge	3/N/PE, Three Phase 380V / 400V / 415V
Grid Voltage Range	260V - 520V (Adjustable)
Nominal Output Frequency	50Hz / 60Hz
Nominal Load Output Power	10,000 W
Nominal Load Output Current	3*15.2 A
Peak Output Apparent Power (10S)	15,000 VA
Max. PV Input Power	15,000 W
Max. PV Voltage	1000 V
Start-up Voltage	150 V
MPPT Voltage Range	160V - 950V
Max. Input Current Per MPPT	20A / 30A
Max. Short Circuit Current	30A / 40A
No. of MPPT	2
Transfer Time	<10 ms
Max. Efficiency (PV to AC)	98.4 %
European Efficiency (PV to AC)	97.9 %
Dimension (W) x (H) x (D)	780 x 680 x 240mm
Weight	47.3 kg



*Pictures may differ from real products

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		-
		_

ALFRED-10

Specification

Battery Module	
Battery Type	, LFP
Battery Capacity	2.4 kWh
Rated Power	2000 W
Max.Charge / Discharge Current	50A / 50A
Max.Charge / Discharge Power	2,400W / 2,400W
Dimensions (W) x (H) x (D)	780 x 140 x 240mm
Weight	25 kg
Certification	
Grid	VDE4105, IEC61727/62116, AS4777.2, EN50549-1, C10/11,
	G98/G100, CEI 0-21, PPDS, RD1699/661/647/413, UNE217002
Safety	IEC62109-1&2, IEC62477-1
Warranty	5/10 Years

Features

Easy Installation

• Wireless design with pin-to-pin connection allows for installation in just 30 minutes.

Stress-Free Power

• Innovatively provides a power switching system to ensure worry-free power consumption forhousehold loads.

Ultra-thin Design

• Sleek and compact design, just 24cm thin, requiring minimal wall space for installation.

Intelligent Monitoring

• Track equipment's status anywhere, anytime, with latest smart app and monitoring system.















- battery efficiency of 94.3%
- Maximum 6.3kW PV input power • Large MPPT current, compatible with
- high-power solar panels
- Advanced parallel function

High Reliability

- Key components from international renowned brands IP65 Protection adaptable for both
- indoor and outdoor environment
- Multiple built-in protections

Intelligent Maintenance

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
 - Advanced energy management mechanism, with multiple built-in working modes and flexible custom ized settings



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Product Image of C



251 120WH & CVG5ST-3K6W60

Single Phase Hybrid ESS CVG5ST-3K6W60 Datasheet

Specification

System Parameters Stacking Method

Model	CRM2ST-5120WH	CRM3ST-7680
Number of Batteries	2	3
Battery Total Energy	5.12 kWh	7.68 kWh
Degree of Protection		
Max Operating Altitude		
Weight	70 kg	95 kg
Dimension (W) x (H) x (D) mm	350 x 700 x 220	350 x 900 x 2
Number of Inverters used in Conjuncti	on 1	1
Display of Inverter		
Communication of Inverter		DRM
Warranty		
Battery Module		
Battery Type		LFP
Battery Capacity		2.5 kWh
Rated Power		1800 W
Max. Charge / Discharge Current	0A/50A (Also depends on	inverter module)
Max. Charge / Discharge Power		2500W / 2500W
Certification		
Grid		
Safety		IEC 62
Other		
Inverter Module		
Model		
Output (Grid)		
Nominal AC Output Power		3600 W
Max. AC Apparent Power		3960 VA
Max. AC Output Current		18 A
Nominal Grid Voltge	220V/230)V/240V, L+N+PE
Grid Voltage Range	150V-3	00V (Adjustable)
Nominal Output Frequency		50Hz / 60Hz
Battery		
Max. Charge / Discharge Current		50A/50A
Input Voltage Range		40 - 65V
Output (Backup)		
Nominal Load Output Power		3000 W
Nominal Load Output Current		13 A
Nominal Output Voltage	220V/230V	/ / 240V, L+N+PE
Nominal Output Frequency		50Hz / 60Hz
Transfer Time		<10 ms



*Pictures may differ from real products

Features

80W	H CRM4ST-10240WH	CRM5ST-12800WH	CRM6ST-15360WH
	4	5	6
Vh	10.24 kWh	12.80 kWh	15.36 kWh
	IP65		
	4,000 m		
	120 kg	145 kg	170 kg
x 220	350 x 1100 x 220	350 x 1300 x 220	350 x 1500 x 2200
	1	1	1
	LCD Screen & APP		
M/RS	485 (for Meter), Wi-Fi (For	App control)	
	10 Years		
P	Dimension (W) x (H) x (D)		350 x 200 x 220mm
Vh	Charging Temperature Ra	inge	-10~50°C
W	Discharging Temperature Range		-20 ~ 55°C
le)	Weight	25 kg	
W	Cycle Life	60	00 cycles @ 25°C 0.5C
	EN 50549-1, G98		
6210	9-1&2, IEC62619, UN38.3,	MSDS, RoHS	
	EMC		
	CVG5ST-3K6W60		
	PV Input		
W	Max. PV Input Power		6300 W
/A	Max. PV Voltage		550 V
А	Start-up Voltage		90 V
ΡE	MPPT Voltage Range		70V - 540V
le)	Full Load MPPT Voltage R	lange	280 - 480V
Ηz	Max Input Current Per M	PPT	15A/15A
	Max. Short Circuit Currer	nt	20A/20A
A	No. of MPPT Strings		2
5V	General		
	Max. Efficiency (PV to AC)	97.3 %
W	Euro. Efficiency (PV - AC)		96.8 %
А	Max. Efficiency (BAT to A	C)	94.3 %
ΡE	Dimension (W) x (H) x (D)	mm	570 x 495 x 175
Ηz	Weight		20 kg
ns			



*Pictures may differ from real proc

Three Phase Hybrid Energy Storage Inverter CVT Series Datasheet

Specification

Model	CVT3ST-8K3P	CVT5ST-15K3P
AC Output (Grid)		
Rated AC Output Power	8.000 W	15,000 W
Rated Output Current	11.6A	21.7A
Max. AC Apparent Power	8.800 VA	16,500 VA
Max. AC Output Current	13 A	24 A
Rated Grid Voltge		230V/400V AC
Rated Grid Frequency)/60Hz
AC Output (Backup)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Rated Output Power	8.000 W	15,000 W
Rated Output Current	11.6 A	21.7 A
Max Output Apparent Power	8,800 W	16,500 W
Max. Output Current	13 A	24 A
Rated Output Voltage		230/400Vac
Rated Output Frequency		D/60Hz
Transfer Time	<10ms when acti	ve, ~60s from standby
THDV		< 3%
Battery Input / Output		
Battery Type	Lithium Iron	Phosphate (LFP)
Battery Voltage Range		0-800V
Max. Charge/Discharge Current	25 A	50A (25A / 25A)
Max. Charge/Discharge Power	8,000 W	15,000 W
Communication Mode	CAI	N, RS485
PV Input		
Recommended Max. PV Input Power	12,000Wp (6,000Wp / 6,000Wp)	22,500Wp (11,250Wp / 11,250Wp)
Max. Input Voltage	1	,000 V
Start-up Voltage		200 V
Rated input voltage		600 V
MPPT Voltage Range	18	0 - 960V
Nos. of MPPT		2
String per MPPT	1/1	2/2
Max. Input Current per MPPT	12.5A / 12.5A	25A/25A
Max. Short Circuit Current per MPPT	15A / 15A	30A / 30A
System Efficiency		
Max. MPPT Efficiency	99.9%	99.9%
Max. Efficiency	98.0%	98.2%
European Efficiency	97.5%	97.7%
Max. Efficiency of Charging/Discharging	97.6%	97.8%

Model	CVT3ST-8K3P	CVT5ST-15K3P
Protection		
DC Switch		Yes
PV Reverse Connection Protection		Yes
Battery Reverse Connection Protection		Yes
Output Short Circuit Protection		Yes
Output Overcurrent Protection		Yes
Output Overvoltage Protection		Yes
Insulation Impedance Detection		Yes
Residual Current Detection		Yes
Anti-island Protection		Yes
Surge Protection	PV: Type	II,AC: Type II
General		
Operating Temperature Range	-30	°C ~ 60°C
Relative Humidity Range	5	% - 95%
Max. Operation Altitude	<	4,000m
Standby Self-consumption		< 25W
Installation Method	Wal	I-mounted
Max. Number of Parallel Units		10 pcs
Dimensions (W) x (H) x (D)	586.6 x 5	515 x 261.2mm
Cooling Mode	Natural	Forced Airflow
Weight	33 kg	37 kg
Ingress Protection Degree		IP65
HMI & COM		
Display	LCD & BI	luetooth + APP
Communication Interface	RS485	5/CAN/WiFi
Standard	IEC/EN 62109, IEC/E	N 61000, EN50549-1, RED,
	ROHS, IEC 60529, VD	E 4105, Tor Erzeuger TypeA

panels.

grid is off.

expansion.

environment.

• PV Insulation Detection.

Reverse Connection Protection.

• Large MPPT current compatible with high-power solar

• Seamless Switch Over with 10ms transfer time when

• Advanced parallel connecting function allows future

• IP65 Protection adaptable for both indoor and outdoor

Features

Excellent Performance

- Rated power output from 8kW to 15kW covers most of the power demand.
- Maximum efficiency 97.7%, which can greatly reduce energy loss.
- Max. 22.5kW PV input through 2 MPPTs maximizes usage of solar energy.

Comprehensive Safety

- Class I Protection Gategory.
- Anti-islanding Protection.
- Surge Protection, Leakage Current Protection.
- Overvoltage Protection, Overcurrent Protection, Short-Circuit Protection.

Advanced Energy Management

- Realtime management on mobile App from anywhere.
- Multiple working modes and flexible customized settings built-in.









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AL PARA

cellent Performance

Maximum efficiency of 98.2% Large string current, compatible with large PV modules Wide voltage rage, compatible with various power grids

gh Reliability

- IP65 protection level for outdoor installation
- AFCI function integrated to keep safty • IP65 Protection adaptable for both indoor and outdoor environment.

Intelligent Maintenance

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STRONG ENERGY

- Power consumption monitoring
 Remote configuration and upgrade
 Quick commissioning via mobile APP

Single Phase String Inverter CVV1ST-3K68 Datasheet

Specification

Model		SE 3.68KTL-D1/G2P	
Efficiency			
Max. Efficiency		98.2 %	
European Efficiency		97.3 %	
Input (PV)			
Max. Input Voltage		550 V	
Max. PV Configuration (STC)		150 %	
Rated Input Voltage		360 V	
Max. Input Current		30A (2*15A)	
Max.Short Circuit Current		40A (2*20A)	
Start Input Voltage		90 V	
MPPT Operating Voltage Range	e	70V - 540V	
Max. Number of PV Strings		2 (1/1)	
No. of MPPTs		2	
Output (Grid)			
Rated AC Active Power		3680 W	
Max. AC Apparent Power		4048 VA	
Max. AC Active Power (PF=1)		4400 W	
Max. AC Output Current		18.4 A	
Rated AC Voltage		220V / 230V / 240, L+N+PE	
AC Voltage Range		160V - 300V(Adjustable)	
Rated Grid Frequency		50Hz / 60Hz	
Grid Frequency Range	4	5Hz - 55Hz / 55Hz - 65Hz (Adjustable)	
THDI		< 3% (Rated Power)	
DC Current Injection		< 0.5% In	
Power Factor	> 0.9	9 Rated Power (Adjustable 0.8 LD - 0.8LG)	
Protection		General	
DC switch	Support	Тороlоду	Transformerless
Anti-islanding protection	Support	IP Rating	IP65
AC overcurrent protection	Support	Night Self Consumption	< 1W
AC short circuit protection	Support	Cooling	Natural Cooling
DC reverse connection	Support	Operating Temperature Range	-25°C ~ 60°C
Surge Arrester	AC Type III (Type II optional) /	Relative Humidity Range	0 - 100%
	DC Type III (Type II optional)	Max. Operating Altitude	4000 m
AFCI	Support	Noise(typical)	30 dE
Insulation detection	Support	Dimensions (W) x (H) x (D)	350 x 347 x 137mm
Leakage current protection	Support	Weight	8.5 kg
HMI & COM			
Display		Wireless & APP, LCD	
Communication		Optional: WiFi / GPRS / RS485 / LAN	
Certification			
Safety		IEC 62109-1, IEC 62109-2	
Grid Code	DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE	2110001/217002, IEC 61727/62116,IEEE 154	47, UL 1741,AS 4777, VDE 0126-3
Warranty		10 Years	



Excellent Performance

- Maximum efficiency 97.3%, which can greatly reduce energy loss
- Max. 9kW PV input through 2 MPPTs maximizes usage of solar energy
- Large MPPT current compatible with high-power solar panels
- Seamless Switch Over with 10ms transfer time when grid is off
- Advanced parallel connecting function allows future expansion

Comprehensive Safety

- Anti-islanding Protection
- Surge Protection, Leakage Current
- Protection Overvoltage Protection, Overcurrent
 Protection, Short-Circuit Protection
- PV Insulation Detection
- Reverse Connection Protection
 IP65 Protection adaptable for both indoor and outdoor environment



Advanced Energy Management

- Realtime management on mobile App from anywhere
- Multiple working modes and flexible customized settings built-in



Single Phase Hybrid Energy Storage Inverter CVS7ST-6000EP Datasheet

Specification

Model			CVS7ST-6000EP
AC Output (Grid)		System Efficiency	
Rated AC Output Power	6000W (Limited to 4600W in Germany)	Max. MPPT Efficiency	99.9%
Rated Output Current	Max 26.1A (Limited to 20A for Germany)	Max. Efficiency	97.8 %
Max. AC Apparent Power	6000VA (Limited to 4600VA in Germany)	European Efficiency	97.3 %
Max. AC Output Current	27.3 A	Max. Efficiency of Charging/Discharging	94.6 %
Rated Grid Voltge	230V, L/N/PE		
Rated Grid Frequency	50 Hz	Protection	Yes
Power Factor	1 (Adjustable +/- 0.8)	DC Switch	Yes
THDI	< 3%	PV Reverse Connection Protection	Yes
		Output Short Circuit Protection	Yes
AC Output (Backup)		Output Overcurrent Protection	Yes
Rated Output Power	4,600 W	Output Overvoltage Protection	Yes
Rated Output Current	21.7 A	Insulation Impedance Detection	Yes
Peak Output Apparent Power	6,000VA, 30s	Residual Current Detection	Yes
Max. Output Current	22.7 A	Anti-island Protection	PV: Type III, AC: Type III
Rated Output Voltage/Freque	ncy 230V, L/N/PE 50/60Hz	Surge Protection	
Transfer Time	<10ms when active, ~60s from standby		
		General	
Battery Input / Output		Dimensions (W) x (H) x (D)	482 x 503 x 183mm
Battery Type	Lithium-ion & Lead Acid	Weight	21.5 kg
Battery Voltage Range	42 - 58V	Max. Operation Altitude	4,000 m
Max. Charge/Discharge Curre	nt 100 A	Ingress Protection Degree	IP65
Max. Charge/Discharge Powe	r 4,600 W	Operating Temperature Range	-30°C ~ 60°C (> 45°C derating)
Communication Mode	CAN, RS485	Cooling	Natural
		Standby Self-consumption	< 10W
PV Input		Installation Method	Wall-mounted
Max. PV Input Power	9,000 Wp		
Max. PV Voltage	600 V	HMI & COM	
Start-up Voltage	100 V	Display	LCD & APP + Bluetooth
Rated input voltage	360 V	Communication Interface	RS485 / CAN / WiFi.
MPPT Voltage Range	90 - 550 V		

Model			CVS7ST-6000EP
AC Output (Grid)		System Efficiency	
Rated AC Output Power	6000W (Limited to 4600W in Germany)	Max. MPPT Efficiency	99.9%
Rated Output Current	Max 26.1A (Limited to 20A for Germany)	Max. Efficiency	97.8 %
Max. AC Apparent Power	6000VA (Limited to 4600VA in Germany)	European Efficiency	97.3 %
Max. AC Output Current	27.3 A	Max. Efficiency of Charging/Discharging	94.6 %
Rated Grid Voltge	230V, L/N/PE		
Rated Grid Frequency	50 Hz	Protection	Yes
Power Factor	1 (Adjustable +/- 0.8)	DC Switch	Yes
THDI	< 3%	PV Reverse Connection Protection	Yes
		Output Short Circuit Protection	Yes
AC Output (Backup)		Output Overcurrent Protection	Yes
Rated Output Power	4,600 W	Output Overvoltage Protection	Yes
Rated Output Current	21.7 A	Insulation Impedance Detection	Yes
Peak Output Apparent Power	6,000VA, 30s	Residual Current Detection	Yes
Max. Output Current	22.7 A	Anti-island Protection	PV: Type III, AC: Type III
Rated Output Voltage/Freque	ncy 230V, L/N/PE 50/60Hz	Surge Protection	
Transfer Time	<10ms when active, ~60s from standby		
		General	
Battery Input / Output		Dimensions (W) x (H) x (D)	482 x 503 x 183mm
Battery Type	Lithium-ion & Lead Acid	Weight	21.5 kg
Battery Voltage Range	42 - 58V	Max. Operation Altitude	4,000 m
Max. Charge/Discharge Curre	nt 100 A	Ingress Protection Degree	IP65
Max. Charge/Discharge Powe	r 4,600 W	Operating Temperature Range	-30°C ~ 60°C (> 45°C derating)
Communication Mode	CAN, RS485	Cooling	Natural
		Standby Self-consumption	< 10W
PV Input		Installation Method	Wall-mounted
Max. PV Input Power	9,000 Wp		
Max. PV Voltage	600 V	HMI & COM	
Start-up Voltage	100 V	Display	LCD & APP + Bluetooth
Rated input voltage	360 V	Communication Interface	RS485 / CAN / WiFi.
MPPT Voltage Range	90 - 550 V		
	0		

Model			CVS7ST-6000EP
AC Output (Grid)		System Efficiency	CV3/31 0000EI
Rated AC Output Power	6000W (Limited to 4600W in Germany)	Max. MPPT Efficiency	99.9 %
Rated Output Current	Max 26.1A (Limited to 20A for Germany)	Max. Efficiency	97.8 %
Max. AC Apparent Power	6000VA (Limited to 4600VA in Germany)	European Efficiency	97.3 %
Max. AC Output Current	27.3 A	Max. Efficiency of Charging/Discharging	94.6 %
Rated Grid Voltge	230V, L/N/PE		
Rated Grid Frequency	50 Hz	Protection	Yes
Power Factor	1 (Adjustable +/- 0.8)	DC Switch	Yes
THDI	< 3%	PV Reverse Connection Protection	Yes
		Output Short Circuit Protection	Yes
AC Output (Backup)		Output Overcurrent Protection	Yes
Rated Output Power	4,600 W	Output Overvoltage Protection	Yes
Rated Output Current	21.7 A	Insulation Impedance Detection	Yes
Peak Output Apparent Power	6,000VA, 30s	Residual Current Detection	Yes
Max. Output Current	22.7 A	Anti-island Protection	PV: Type III, AC: Type III
Rated Output Voltage/Freque	ency 230V, L/N/PE 50/60Hz	Surge Protection	
Transfer Time	<10ms when active, ~60s from standby		
		General	
Battery Input / Output		Dimensions (W) x (H) x (D)	482 x 503 x 183mm
Battery Type	Lithium-ion & Lead Acid	Weight	21.5 kg
Battery Voltage Range	42 - 58V	Max. Operation Altitude	4,000 m
Max. Charge/Discharge Curre	ent 100 A	Ingress Protection Degree	IP65
Max. Charge/Discharge Powe	r 4,600 W	Operating Temperature Range	-30°C ~ 60°C (> 45°C derating)
Communication Mode	CAN, RS485	Cooling	Natural
		Standby Self-consumption	< 10W
PV Input		Installation Method	Wall-mounted
Max. PV Input Power	9,000 Wp		
Max. PV Voltage	600 V	HMI & COM	
Start-up Voltage	100 V	Display	LCD & APP + Bluetooth
Rated input voltage	360 V	Communication Interface	RS485 / CAN / WiFi.
MPPT Voltage Range	90 - 550 V		
	0		

PVInput		
Max. PV Input Power	9,000 Wp	
Max. PV Voltage	600 V	
Start-up Voltage	100 V	
Rated input voltage	360 V	
MPPT Voltage Range	90 - 550 V	
Nos. of MPPT	2	
Max. Input Current per MPPT	13A/13A	
Max. Short Circuit Current per MPPT	18A/18A	

IEC/EN 62109, IEC/EN 61000, EN50549-1, RED, Standard ROHS, IEC 60529, VDE 4105



High-Voltage Residential Energy Storage Battery **CRN*ST** Datasheet

9.4-23.5kWh I Wall-mounted Floor-standing I Outdoor

Specification

Model	CRN2ST-9.4kW
Stacking Method	
Scalability	2
Nominal Capacity	9.4 kWh
Operating Voltage Range	172.8 - 230.4
Standard Charge/Discharge Current	
Max Charge/Discharge Current	
Dimensions (W) x (H) x (D) mm	657 x 165 x 1351
Weight	114 kg
Communication Method	
Protection Class	
Opreating Ambient Temperature	
Opreating Ambient Humidity	
Operating Altitude	
Life cycle	
Certification	
Compatibility	

Features





- Super easy installation like building bricks.
- Enhanced reliability and easy maintenance.



Excellent Performance

- Maximum charge/discharge current up to 36A / 40A.
- Available at Low Temperature, Dischargeble and chargeable at -20°C.

CRN3ST-14kWh	CRN4ST-18.8kWh	CRN5ST-23.5kWh
3	4	5
14 kWh	18.8 kWh	23.5 kWh
259.2 - 345.6	345.6 - 460.7	432 - 576
23/	40A	
36 /	40A	
657 x 165 x 1861	1657 x 165 x 1351	1657 x 165 x 1861
163 kg	212 kg	261 kg
RS485/CAN/Ethernet	(Remote Maintenance)	
IP	66	
-20°C	~ 50°C	
5% - 95% (No	Condensation)	
< 2,0	000m	
≥10000	@ 25°C	
IEC62619/UN38.3/CE-EMC	/IEC 60730-1/VDE2510-	50
Strong CVT S	eries Inverter	



- **Comprehensive Safety**
- CATL EV-grade LFP cells, safe and stable
- Advanced BMS management mechnism.
- Overvoltage Protection, Overcurrent Protection.
- Short-Circuit Protection, Reverse Connection Protection.
- IP66 wateroof level for outdoor



Low-Voltage Residential Energy Storage Battery CR05ST-14.3kWh Datasheet

14.3-228.8kWh | Wall-mounted Floor-standing | Outdoor

Specification

Model	BB-LFP-280Ah-P	
Scalability	1 (Support for Parallel Expansion of 16 Units)	
Nominal Capacity	14.3 kWh	
Operating Voltage Range	44.8-57.6	
Standard Charge/Discharge Current	140 A	
Max Charge/Discharge Current	200 A	
Max Charging/Discharging Power	10.24 kW	
Dimensions (W) x (H) x (D)	642 x 203 x 1154mm	
Weight	170 kg	
Depth of Discharge	90 %	
Communication Method	RS485/CAN/Ethernet (Remote Maintenance)	
Protection Class	IP66	
Opreating Ambient Temperature	Charge: -10°C ~ 45°C ; Discharge: -20°C ~ 45°C	
Opreating Ambient Humidity	5% - 95% (No Condensation)	
Operating Altitude	< 2,000m	
Life cycle	≥12000 @ 25°C	
Certification	IEC62619/UL1973/UN38.3/CE-EMC/FCC/UL 60730-1	
Compatibility	Strong CVS7ST-6000EP Inverter	

Features



Incredible High Capacity & Life

- 14.3kWh single battery pack, scalable to 228.8kWh.
- Life Cycle ≥12000 (70% SOH)



Excellent Performance

- Maximum charge/discharge current up to
- 200A/200A.
- Available at Low Temperature, dischargeable at -20°C, chargeable at -10°C



- **Comprehensive Safety**
- CATL EV-grade LFP cells, safe and stable
- Overvoltage Protection, Overcurrent Protection.
- Short-Circuit Protection, Reverse Connection Protection.
- IP66 waterpoof level for outdoor