AC SOLUTIONS & DC FAST CHARGING

Renon EStand

ENERGY STORAGE SYSTEM

- Equipping with two DC charging guns, suitable for American or Japanese standard
- Enables fast charging for Electrical Vehicles
- Powering off-grid and on-grid modes
- Supports A/C, Fan, and aerosol extinguishing thermal management
- Intelligent EMS, provides CAN / RS485 / Wifi communications

Renon EStand stands as a mass-storage solution for commercial energy storage applications. IP55 protection and constant thermal management of the air conditioning system and fan, make it available for indoor and outdoor installation, with the ability to withstand severe environmental conditions. EStand is designed from the bottom up with safety as the top priority, including protection features that make the entire system perform stably throughout the whole product life cycle. Carrying Renon self-developed EMS tool to represent real-time running states, etc., and helps fault pre-warning.

RENON
RENON POWER

2022-01-12

AC Power Solutions

info@**renonpower**.com
www.**renonpower**.com

Battery Energy Storage

Single Cell Type	LFP 3.2V / 280Ah
Combination	1P180S
Usable Energy [1] (kWh)	161.28
Nominal Voltage (V)	576
Voltage Range (Vdc)	527.4～639
Charge / Discharge Current	≤1C
Cycle Life	≥8000 times
Thermal Management Mode	A/C & Fan
Thermal Control Management	Aerosol Extinguishing

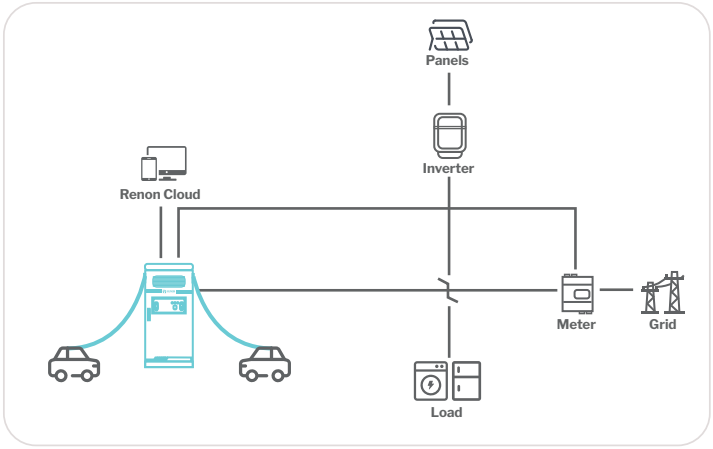
AC Input

Input Voltage (Vac)	400/480, 3L+PE
Voltage Range (Vac)	260 ~ 530
Current Range(A)	0 ~ 172
Frequency Range (Hz)	45 ~ 65
THDi	≤5% Full-load output power of @50%～100%
Power Factor	≥0.99 Full-load output power of @50%～100%

AC Output

Output AC Voltage & Output Power	320 ~ 530 Vac, 88kW 320 ~ 260 Vac, linear derating to 44kW
Rated Power (kVa) & Current (A)	88 / 133.2
Output AC Frequency (Hz)	50 / 60
THDi	＜5%
Output Power Factor	User Setting Scale, 0.8 ~ 1, -0.8 ~ -1
Efficiency (Max.)	≥96.5%
Voltage Accuracy & Distortion (Off-Grid)	1% & <3%
Power Factor (Off-Grid)	>0.7
Dynamic Voltage Stability & Recovery Time (Off-Grid)	5% & 20mS

System Layout



PV Input

Max. Allowable Photovoltaic Power (kW)	60
PV Voltage Range (Vdc)	300 ~ 825
Max. Input Current (A)	50

System Characteristic

Certifications	UL9540 / UL9540A / UL2202 / UL1741 / UL1973 / IEC62619 / FCC / UN38.3
Communication Interface	CAN, RS485, Wi-Fi
Warranty [2]	10 Years

General Parameters

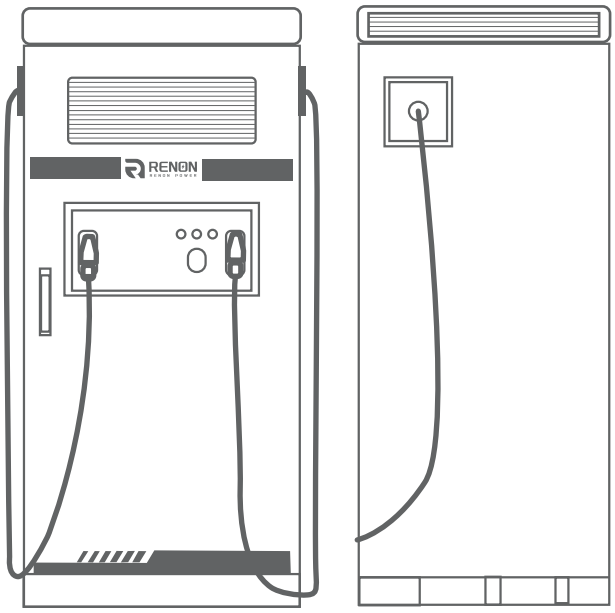
Dimensions (W*D*H)	1050*1360*2260 mm 41.3*53.5*89 in
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, non-condensing
Recommended Storage Conditions	0°C to 35°C (32°F to 95°F) Up to 95% RH, non-condensing State of Energy (SoE): 50% initial
Max. Elevation	3000m (9843 ft)
Enclosure	IP55
Installation Scene	Indoor and Outdoor
Noise Level @1m	<75 dB(A)

Charging Gun Parameters

Current (A)	125 / gun
Quantity	2
Standard	American / Japan standard DC gun

[1] 97%DOD

[2] Please refer to the warranty manual for details



2023-01-12