HV INTEGRATED

STORAGE & CHARGING ENERGY SYSTEM-US

SmartPowerMax

- Integrated battery, inverter, PV controller, EV charging cables, and system controller, more compact structure, higher power density, easy product installation.
- Three-layer energy management system, strong protection, high reliability and long cycle life.
- IP65 protection level, integrated liquid cooling control system, smart controlling of operating temperature so that can adapt to the harsh environment.
- Complete application modes, including self-powered, time-based power control and backup power mode.

Renon SmartPower Max Series is an integrated energy storage charger, consisting of a PCS(power control system), battery storage system and EV charging pile. Through the energy storage system, it gives full play to the function of storing energy and optimizing allocation to significantly reduce the cost of electricity consumption. By intelligently switching charging and discharging modes to achieve valley charging and peak discharging, it can also be used in off-grid operation mode for emergency charging of electrical vehicles or reverse-phase power supply for household appliances during grid failure outages.





SmartPowerMax

33.28kWh
332.8V
100A
304.72V~369.2V

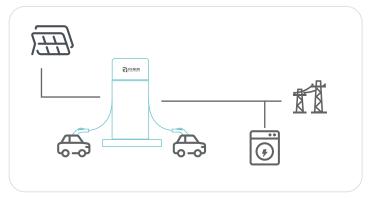
Cycle Life

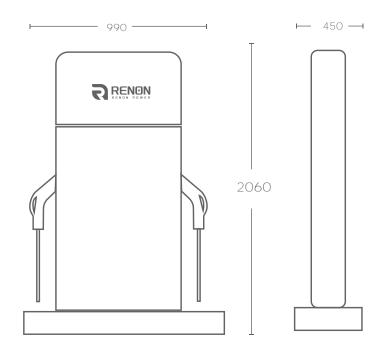
Hybrid Inverter Specification	
Max PV Power Delivered to Battery & AC Out	tputs 13KW&15KW
PV Maximum Input Voltage(Vdc)	600
PV DC MPPT Voltage Range(Vdc)	120~550
Nominal Voltage(Vdc)	380
Starting Voltage(Vdc)	150
Number of MPPT	4 (2 Strings per MPPT)
Max DC Current per MPPT (Self Limiting)	26*4
Max AC Coupled Input (Micro/String Inverter	s) 22KVA
Solar Generation CEC Efficiency	97.5% at 208 V 98.0% at 240 V
Nominal Grid Voltage (Input/Output)	120/240VAC
Grid Voltage Range	204~264VAC
Frequency	50Hz/60Hz
Phase	240VAC : L1\L2\N\PE
Continuous Power On-Grid/Off-Grid	15KW
Peak Off-Grid Power (10s)	30kVA
Max. Continuous Current On-Grid/Off-Grid	68.2A / 65.6A
Continuous AC Power with Grid or Generator	48kW 200A L-L (240V) 24kW 200A L-N (120V)
Power Factor	+/- 0.9 - 1.0

General Parameters	
Dimensions (W*T*H)	990mm*450mm*2060mm
Total Weight	TBD
Enclosure	IP65 / NEMA 3R
Operating Temperature	−20°C to 50°C
Recommended Temperature	o°C to 30°C
Operating Humidity (RH)	Up to 100%, non-condensing
Storage Conditions	–20°C to 30°C Up to 95% RH, non-condensing State of Energy (SoE): 50% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Outdoor
Noise Level @1m	< 40 db(A) optimal, < 50 db(A) maximum

System Layout

8000times





EV Charger Specifications	
Type of EV Charger	AC EV Charger
Current of EV Charge	32A
Number of EV Charge	2
Protocol Standard	US Standard

System Characterist	ic
Certifications	UL1741, UL9540, UL1642,UN38.3, IEE E1547a-2003/2014
Emissions	FCC Part 15 Class B
Surge Protection	DC Type II / AC Type II
Communication Interface	CAN, Wi-Fi, Ethernet
Warranty	5Years Unconditional + 5Years Conditional
Grid Connection	United States