

ESS-GRID Station Series

Designed for indoor use, C&I battery systems



160.7kWh - 257kWh
S314-10/11/12/13/14/15/16

Designed for “behind-the-meter” microgrids, C&I energy backup, solar farms, community power generation, electric vehicle charging, and data center applications, the ESS-GRID Station series features a master-slave mechanism multi-tier battery management system (BMS) that monitors, optimizes, and passive balances the system.



Long cycle life,
>6000 cycles



High density,
over 174wh/kg



Modular design for rapid
expansion and installation



Optional aerosol fire
extinguishers



Optional remote monitoring
of the battery



Maximum 0.5C charge and
discharge

Technical specification

ESS-GRID	S314-10	S314-11	S314-12	S314-13	S314-14	S314-15	S314-16
Rated Voltage(V)	512.0	563.2	614.4	665.6	716.8	768.0	819.2
Rated Capacity(Ah)	314						
Cell Model(LFP-3.2V)(Ah)	314						
System Configuration	160S1P	176S1P	192S1P	208S1P	224S1P	240S1P	256S1P
Rate Power(kWh)	160.768	176.844	192.921	208.998	225.075	241.152	257.228
Charge Upper Voltage(V)	568.0	624.8	681.6	738.4	795.2	852.0	908.8
Discharge Lower Voltage(V)	456.0	501.6	547.2	592.8	638.4	684.0	729.6
Recommended Current(A)	157						
Max. Charging Current(A)	157						
Max. Discharging Current(A)	157						
Dimension(L*W*H)(±10MM)	High Voltage Control Box		846*518*270				
	Single Battery Pack		846*518*270				
Number of Series	10	11	12	13	14	15	16
Communication Protocol	CAN BUS / Modbus RTU						
Host Software Protocol	CANBUS (Baud rate @500Kb/s or 250Kb/s)						
Operation Temperature Range	Charge:0~55℃						
	Discharge: -20~55℃						
Cycle Life(25℃)	>6000 cycles @80% DOD 0.5C 25℃						
Protection Level	IP20						
Storage Temperature	0℃~35℃						
Storage Humidity	10%RH ~90%RH						
Internal Impedance	≤1Ω						
Warranty	10 years						
Battery Life	≥15 years						
Weights(KG) (Subject to actual shipment)	1240±5%	1356±5%	1497±5%	1613±5%	1730±5%	1864±5%	1963±5%

Note: Parameters can be adjusted according to customer requirements

