

# ESS-GRID Station Series

Designed for indoor use, C&I battery systems



**143.4kWh - 229.4kWh**  
S280-10/11/12/13/14/15/16

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 proactively 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	S280-10	S280-11	S280-12	S280-13	S280-14	S280-15	S280-16
Rated Voltage(V)	512.0	563.2	614.4	665.6	716.8	768.0	819.2
Rated Capacity(Ah)	280						
Cell Model(LFP-3.2V)(Ah)	280						
System Configuration	160S1P	176S1P	192S1P	208S1P	224S1P	240S1P	256S1P
Rate Power(kWh)	143.4	157.7	172.0	186.4	200.7	215.0	229.4
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)	140						
Max. Charging Current(A)	200						
Max. Discharging Current(A)	200						
Dimension(W*D*H,mm)	High Voltage Control Box		501*840*250 (±10)				
	Single Battery Pack		501*846*250 (±10)				
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°C						
	Discharge: -20~55°C						
Cycle Life(25°C)	> 6000 @80%DOD						
Protection Level	IP20						
Storage Temperature	0°C~35°C						
Storage Humidity	10%RH ~90%RH						
Internal Impedance	≤1Ω						
Warranty	10 years						
Battery Life	≥15 years						
Weights(KG)	1214±3%	1329±3%	1463±3%	1578±3%	1693±3%	1808±3%	1923±3%

Note: Parameters can be adjusted according to customer requirements

