

# Indoor ESS Station Series

Designed for indoor use, wide range battery systems



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 125wh/kg



Modular design for rapid  
expansion and installation



Equipped with an aerosol  
fire extinguisher



WIFI function, remote AOT  
one-click upgrade



Maximum 1C charge and  
discharge

Technical specification

| PBS-RACK-S                  | 205-10                                 | 205-11 | 205-12      | 205-13 | 205-14 | 205-15 | 205-16 |
|-----------------------------|----------------------------------------|--------|-------------|--------|--------|--------|--------|
| Rated Voltage(V)            | 512.0                                  | 563.2  | 614.4       | 665.6  | 716.8  | 768.0  | 819.2  |
| Rated Capacity(Ah)          | 205                                    |        |             |        |        |        |        |
| Cell Model(LFP-3.2V)(Ah)    | 205                                    |        |             |        |        |        |        |
| Rate Power(kWh)             | 105.0                                  | 115.5  | 126.0       | 136.4  | 146.9  | 157.4  | 167.9  |
| 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)      | 102.5                                  |        |             |        |        |        |        |
| Max. Charging Current(A)    | 200                                    |        |             |        |        |        |        |
| Max. Discharging Current(A) | 200                                    |        |             |        |        |        |        |
| Dimension(L*W*H)(MM)        | High Voltage Control Box               |        | 501*715*250 |        |        |        |        |
|                             | Single Battery Pack                    |        | 501*721*250 |        |        |        |        |
| 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 @80%DOD                         |        |             |        |        |        |        |
| Protection Level            | IP20                                   |        |             |        |        |        |        |
| Storage Temperature         | -10℃~40℃                               |        |             |        |        |        |        |
| Storage Humidity            | 10%RH ~90%RH                           |        |             |        |        |        |        |
| Internal Impedance          | ≤1Ω                                    |        |             |        |        |        |        |
| Warranty                    | 10 years                               |        |             |        |        |        |        |
| Battery Life                | ≥15 years                              |        |             |        |        |        |        |
| Weights(KG)                 | 907                                    | 992    | 1093        | 1178   | 1263   | 1348   | 1433   |

Note: Parameters can be adjusted according to customer requirements

