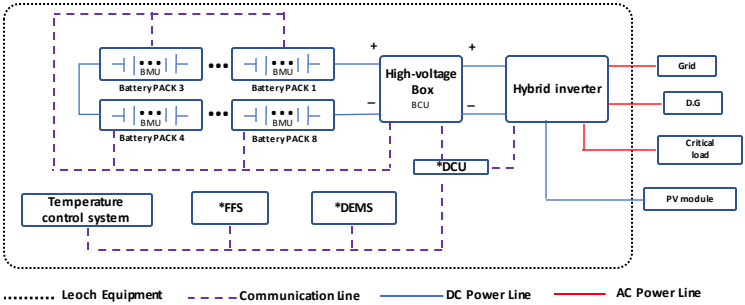


Air-Cool PV Energy Storage System – Hybrid Inverters  
Titan-S50/160/100-WS



- Easy to Install
- Flexible deployment
- Safe and Reliable
- Rich configuration



| System Model                                                              | Titan-S50/160/100-WS                                                                                             |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Battery Parameters                                                        |                                                                                                                  |
| Cell Type                                                                 | LFP3.2V, 314Ah                                                                                                   |
| Battery PACK Type                                                         | 1P20S                                                                                                            |
| Cluster Configuration                                                     | 1P160S                                                                                                           |
| Nominal Energy                                                            | 160kWh                                                                                                           |
| Nominal Battery Voltage                                                   | 512V                                                                                                             |
| Battery Voltage Range                                                     | 448V ~ 576V                                                                                                      |
| Charge and Discharge Rate                                                 | 0.5C                                                                                                             |
| Battery Cabinet Certification                                             | IEC62619, IEC61000, UN38.3                                                                                       |
| AC Parameters                                                             |                                                                                                                  |
| Type of Grid connection                                                   | 3L/N/PE                                                                                                          |
| Rated Power                                                               | 50kW                                                                                                             |
| Rated Voltage                                                             | AC 400V                                                                                                          |
| Rated Current                                                             | 72A                                                                                                              |
| Rated Grid Frequency                                                      | 50/60Hz                                                                                                          |
| THD                                                                       | ≤3%                                                                                                              |
| Hybrid Inverter Certification                                             | IEC62477, IEC61000, IEC62920, IEC62109, EN55011, EN50549, G99, AS 4777,VDE 4110, VDE 4105, TOR-R25-TypeA & TypeB |
| System Parameters                                                         |                                                                                                                  |
| Dimensions (W*D*H)                                                        | Batterycabinet: 800*1330*2360mm<br>Hybrid inverter: 530*290*880 mm                                               |
| Weight                                                                    | Hybrid inverter: 73kg; Battery cabinet: 1620kg                                                                   |
| IP Level                                                                  | Hybrid inverter: IP66; Battery cabinet: IP55                                                                     |
| Cooling Method                                                            | Hybrid inverter: Intelligent fan ; Battery cabinet: air conditioner                                              |
| Fire Fighting System                                                      | Cabinet level aerosol fire extinguishing + w ater fire fighting+ explosion- proof pressure relief                |
| Grade of corrosion prtction                                               | C3                                                                                                               |
| Relative Humidity                                                         | 5-95% (no condensation)                                                                                          |
| Operating Temperature                                                     | -20°C~50°C                                                                                                       |
| Altitude                                                                  | ≤2000m(Derating over 2000 meters)                                                                                |
| Communication Interface                                                   | RS485, Ethernet                                                                                                  |
| Communication Protocol                                                    | Modbus RTU, Modbus TCP/IP                                                                                        |
| PV Parameters                                                             |                                                                                                                  |
| PV Input Power                                                            | 100kW                                                                                                            |
| MPPT Voltage Range                                                        | 150V-850V                                                                                                        |
| Number of MPPTs                                                           | 4                                                                                                                |
| Number of PV input channels                                               | 8                                                                                                                |
| Hybrid Inverter Automatic Switching Function Between On-grid and Off-grid |                                                                                                                  |
| Sw itching Time                                                           | <10ms                                                                                                            |

Application Scenario

