

# Applicable to C&I Energy Storage Scenarios 50/60kW-221kWh Distributed Photovoltaic Energy Storage Hybrid System

## Product Models

- ◆ KYT50kW-197kWh-A
- ◆ KYT50kW-221kWh-A
- ◆ KYT60kW-197kWh-A
- ◆ KYT60kW-221kWh-A



## Plug-in Installation



Easy installation  
labor saving

## Four-Level Fire Protection



Accurate monitoring to  
prevent problems  
Multiple barriers, solid  
protection

## Support Diesel Engine



Optimize resource  
allocation Enhance  
power supply reliability

## Multiple Systems in Parallel



Up to 40 units can be  
connected in parallel

\*Requires parallel collectors (under grid-connected condition)

| Model                            | KYT50kW-197kWh-A                                                                                                                        | KYT50kW-221kWh-A | KYT60kW-197kWh-A | KYT60kW-221kWh-A |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|------------------|
| PV Input Data                    |                                                                                                                                         |                  |                  |                  |
| Max. Input Power[W]              | 85000                                                                                                                                   |                  | 102000           |                  |
| Max. Input Voltage[V]            | 1000                                                                                                                                    |                  |                  |                  |
| MPPT Operating Voltage           | 180~900/610                                                                                                                             |                  |                  |                  |
| Max. Input Current[A]            | 36/36/36/36                                                                                                                             |                  |                  |                  |
| Max. Short Circuit Current[A]    | 40/40/40/40                                                                                                                             |                  |                  |                  |
| Number of MPPT Trackers          | 4                                                                                                                                       |                  |                  |                  |
| Number of Strings per MPPT       | 2/2/2/2                                                                                                                                 |                  |                  |                  |
| AC Output Data(GRID)             |                                                                                                                                         |                  |                  |                  |
| Nominal Output Power[W]          | 50000                                                                                                                                   |                  | 60000            |                  |
| Max. Apparent Power [VA]         | 55000                                                                                                                                   |                  | 66000            |                  |
| Max Input Power[W]               | 60000                                                                                                                                   |                  |                  |                  |
| Nominal Output Voltage[Vac]      | 380/400V,3L/N/PE                                                                                                                        |                  |                  |                  |
| Nominal Output Frequency[Hz]     | 50/60                                                                                                                                   |                  |                  |                  |
| Max. Output Current[A]           | 79                                                                                                                                      |                  | 95               |                  |
| Maximum three-phase unbalanced   | 79                                                                                                                                      |                  | 95               |                  |
| Power grid bypass current (A)    | 87                                                                                                                                      |                  |                  |                  |
| Power factor range               | ~1 (0.8 lead to 0.8 lag can be set)                                                                                                     |                  |                  |                  |
| Total Harmonic Distortion[%]     | <3                                                                                                                                      |                  |                  |                  |
| AC Output Data(EPS)              |                                                                                                                                         |                  |                  |                  |
| Nominal Output Power[W]          | 50000                                                                                                                                   |                  | 60000            |                  |
| Max. Apparent Power [VA]         | 55000                                                                                                                                   |                  | 66000            |                  |
| Nominal Output Voltage[Vac]      | 380/400V,3L/N/PE                                                                                                                        |                  |                  |                  |
| Nominal Output Frequency[Hz]     | 50/60                                                                                                                                   |                  |                  |                  |
| Maximum three-phase unbalanced   | 79                                                                                                                                      |                  | 95               |                  |
| Maximum output single-phase      | 18000                                                                                                                                   |                  | 22000            |                  |
| Peak Output Apparent             | 60000                                                                                                                                   |                  | 72000            |                  |
| Peak Output Apparent             | 75000                                                                                                                                   |                  | 75000            |                  |
| On/off Grid switching time [ms]  | <10                                                                                                                                     |                  |                  |                  |
| AC Output Data(GEN)              |                                                                                                                                         |                  |                  |                  |
| Nominal Voltage[Vac]             | 380/400V,3L/N/PE                                                                                                                        |                  |                  |                  |
| Nominal Frequency[Hz]            | 50/60                                                                                                                                   |                  |                  |                  |
| Nominal Input Apparent Power[VA] | 50000                                                                                                                                   |                  | 60000            |                  |
| Battery Data                     |                                                                                                                                         |                  |                  |                  |
| Operating Voltage Range[V]       | 616~803                                                                                                                                 |                  |                  |                  |
| Battery model                    | KY-64V280AH-A00                                                                                                                         | KY-64V314AH-A00  | KY-64V280AH-A00  | KY-64V314AH-A00  |
| Nominal Charge/Discharge         | 140/140                                                                                                                                 | 157/157          | 140/140          | 157/157          |
| Max. Charge/Discharge Current[A] | 160/160                                                                                                                                 | 176/176          | 160/160          | 176/176          |
| Number of Batteries              | 11                                                                                                                                      |                  |                  |                  |
| Single Battery Capacity[kWh]     | 17.92                                                                                                                                   | 20.09            | 17.92            | 20.09            |
| Nominal Capacity[kWh]            | 197                                                                                                                                     | 221              | 197              | 221              |
| Available Capacity[kWh]          | 177                                                                                                                                     | 199              | 177              | 199              |
| temperature control              |                                                                                                                                         |                  |                  |                  |
| temperature control              | Intelligent air conditioning                                                                                                            |                  |                  |                  |
| Fire Protection System           |                                                                                                                                         |                  |                  |                  |
| Active firefighting              | Detector+hot aerosol fire extinguishing device+water fire protection                                                                    |                  |                  |                  |
| Passive firefighting             | Hot aerosol fire extinguishing device                                                                                                   |                  |                  |                  |
| Explosion proof function         | Passive pressure explosion-proof valve                                                                                                  |                  |                  |                  |
| General Data                     |                                                                                                                                         |                  |                  |                  |
| Operating Temperature Range [°C] | -25~60(>45derating)                                                                                                                     |                  |                  |                  |
| Altitude[m]                      | <4000                                                                                                                                   |                  |                  |                  |
| Ingress Protection Rating        | IP54                                                                                                                                    |                  |                  |                  |
| Relative Humidity[%]             | 0~95, No condensation                                                                                                                   |                  |                  |                  |
| Dimension(W*H*D)[mm]             | 1200*2340*1380                                                                                                                          | 1200*2340*1578   | 1200*2340*1380   | 1200*2340*1578   |
| Certification standards          |                                                                                                                                         |                  |                  |                  |
| Safety Standards                 | IEC62109-1/-2                                                                                                                           |                  |                  |                  |
| EMC Standards                    | EN61000-6-1/-3,IEC61000                                                                                                                 |                  |                  |                  |
| On-grid Standard                 | AS4777.2:2020,NRS097-2-1:2017,EN 50549-1 for Czech,VDE-AR-N 4105:2018,EN50549-1:2019+AC:2,G98 G99,OVE-R25,EN50549-1:2019 for Poland A&B |                  |                  |                  |