

## Energy Storage System (ESS)

### All-in-One



| MODEL                                  | AKESS Lite- | 600W+660Wh-S                                                                                                                            | 1000W+1000Wh | 1000W+1000Wh-S |
|----------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| Rated Capacity                         |             | 600W                                                                                                                                    | 1000W        | 1000W          |
| Battery Capacity                       |             | 660Wh                                                                                                                                   | 1000Wh       | 1000Wh         |
| Input                                  |             |                                                                                                                                         |              |                |
| Input Format                           |             | L+N+PE                                                                                                                                  |              |                |
| Rated Input Voltage                    |             | 220/230/240VAC                                                                                                                          |              |                |
| Voltage Range                          |             | 170~270VAC                                                                                                                              |              |                |
| Frequency Range                        |             | 50Hz/60Hz(Auto Sensing)                                                                                                                 |              |                |
| Output                                 |             |                                                                                                                                         |              |                |
| Output Format                          |             | L+N+PE                                                                                                                                  |              |                |
| Rated Output Voltage                   |             | 220 ± 5%                                                                                                                                |              |                |
| Output Frequency                       |             | 50/60Hz                                                                                                                                 |              |                |
| Waveform                               |             | Pure Sine Wave                                                                                                                          |              |                |
| Transfer Time                          |             | ≤ 10ms                                                                                                                                  |              |                |
| Peak Power                             |             | 1200VA                                                                                                                                  | 2000VA       | 2000VA         |
| Overload Capacity(Battery Mode)        |             | ① LOAD<100% ± 50W, output normal③ LOAD short-circuited, output shuts down immediately<br>② LOAD>100% ± 50W, output shuts down after 55s |              |                |
| Peak Efficiency                        |             | >90%                                                                                                                                    | >91%         | >91%           |
| DC Output                              |             | 12V/3A                                                                                                                                  |              |                |
| USB                                    |             | 5V/2.4A x 2 USB groups                                                                                                                  |              |                |
| Battery                                |             |                                                                                                                                         |              |                |
| Rated Voltage                          |             | 12.8 VDC                                                                                                                                | 19.2 VDC     | 19.2 VDC       |
| Constant Charging Voltage (Can Be Set) |             | 14.6 VDC                                                                                                                                | 21.6VDC      | 21.6VDC        |
| Float Charging Voltage (Can Be Set)    |             | 13.5 VDC                                                                                                                                | 20.6 VDC     | 20.6 VDC       |
| Solar Charger & AC Charger             |             |                                                                                                                                         |              |                |
| Solar Charger Type                     |             | PWM                                                                                                                                     | /            | MPPT           |
| PV Maximum Input Power                 |             | 120W                                                                                                                                    | /            | 1000W          |
| MPPT Tracking Range                    |             | 12~30 VDC                                                                                                                               | /            | 17~90 VDC      |
| Maximum PV Input Voltage               |             | 30 VDC                                                                                                                                  | /            | 102 VDC        |
| Maximum PV Charge Current              |             | 4 A                                                                                                                                     | /            | 30 A           |
| Maximum Mains Charging Current         |             | 16 A                                                                                                                                    | 20 A         | 20 A           |
| Maximum Charging Current               |             | 20A                                                                                                                                     | 20 A         | 50 A           |
| Environmental Parameters               |             |                                                                                                                                         |              |                |
| Operating Ambient Temperature          |             | 0~40℃                                                                                                                                   |              |                |
| Operating Environment Humidity         |             | 20%~95% ( Non-condensing )                                                                                                              |              |                |
| Storage Temperature                    |             | -15~60℃                                                                                                                                 |              |                |
| Altitude                               |             | <2000m                                                                                                                                  |              |                |
| Noise                                  |             | ≤ 40db                                                                                                                                  |              |                |
| Physical Parameters                    |             |                                                                                                                                         |              |                |
| W×D×H(mm)                              |             | 355×275×105                                                                                                                             | 415×390×110  | 415×390×110    |
| Weight (For Reference)                 |             | 10.6kg                                                                                                                                  | 12.8kg       | 13.4kg         |

\* Model No. XXX-S (S: with solar input)

Product specifications are subject to change without notice.