















FShark Series 3~8kW Single Phase All in One ESS



| | | | |
|--|---|---|--|
|  <p>Touch Screen Design for Easier Operation</p> |  <p>Modular Design, Wire-free Installation</p> | <p>150%</p> <p>150% PV Input oversizing</p> | <p>5.12~40.96kWh</p> <p>Batteries are stacked in modules</p> |
|  <p>Can be Adapted to Three-phase Smart Meters, More Flexible System Design</p> |  <p>Independent fire protection module</p> |  <p>Intelligent load management (such as heat pumps, diesel generators)</p> |  <p>Support remote software upgrade (OTA)</p> |

| System Parameters | | | | | | | | |
|---|--|---|---|---|--|---|---|---|
| System Structure |  |  |  |  |  |  |  |  |
| Rated output power | 3000~8000W | | | | | | | |
| Number of battery | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Battery capacity | 5.12kWh | 10.24kWh | 15.36kWh | 20.48kWh | 25.6kWh | 30.72kWh | 35.84kWh | 40.96kWh |
| Operating temperature | 0°C~50°C (Charging) / -10°C~50°C (Discharging) | | | | | | | |
| Noise | <25dB | | | | | | | |
| Humidity | 0~100% | | | | | | | |
| Cooling strategy | Natural | | | | | | | |
| Enclosure protection rating | IP65 | | | | | | | |
| Communication | RS485 / WiFi | | | | | | | |
| Operating altitude | ≤3000m(>3000m Power Derating) | | | | | | | |
| Weight | 93kg | 147kg | 201kg | 255kg | 124kg/201kg | 178kg/201kg | 178kg/255kg | 232kg/255kg |
| Dimension [W*D*H, mm] | 675*200*840 | 675*200*1205 | 675*200*1570 | 675*200*1935 | 675*200*985 675*200*1570 | 675*200*1350 675*200*1570 | 675*200*1350 675*200*1935 | 675*200*1715 675*200*1935 |
| Inverter | | | | | | | | |
| Model | FShark-3K0L | FShark3K6L | FShark-4K0L | FShark-4K6L | FShark-5K0L | FShark-6K0L | FShark-8K0L | |
| Rated battery voltage | 51.2V | 51.2V | 51.2V | 51.2V | 51.2V | 51.2V | 51.2V | |
| Max. Charging Power | 3000W | 3680W | 4000W | 4600W | 5000W | 6000W | 8000W | |
| Max. charge/Discharge current | 60/60A | 72/72A | 80/80A | 92/92A | 100/100A | 120/120A | 160/160A | |
| Max. input power | 4500W | 5400W | 6000W | 6900W | 7500W | 9000W | 12000W | |
| Max. PV voltage | 550V | | | | | | | |
| Start-up voltage | 100V | | | | | | | |
| Rated DC voltage | 360V | | | | | | | |
| MPPT voltage range | 80~500V | | | | | | | |
| No. of MPP trackers | 2 | | | | | | | |
| No. of string per MPP tracker | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/2 | |
| Input current | 14/14A | 14/14A | 14/14A | 14/14A | 14/14A | 14/14A | 14/28A | |
| Max.input current | 16/16A | 16/16A | 16/16A | 16/16A | 16/16A | 16/16A | 16/32A | |
| Rated output power for on-grid and off-grid | 3000W | 3680W | 4000W | 4600W | 5000W | 6000W | 8000W | |
| Rated output current | 13A | 16A | 17.4A | 20A | 21.7A | 26A | 35A | |
| Max. output current | 14.3A | 16A | 19.1A | 20A | 21.7A | 28.7A | 38.3A | |
| Rated output voltage | L/N/PE, 220V, 230V | | | | | | | |
| Rated frequency | 50/60Hz | | | | | | | |
| THDv | <3% | | | | | | | |
| Overload ability | 110%, 60s /120%, 30s /150%, 10s | | | | | | | |
| Switch time | <20ms | | | | | | | |
| Inverter topology | Non-isolated | | | | | | | |
| Max. efficiency | 97.6% | | | | | | | |
| Euro efficiency | 97.0% | | | | | | | |
| Max. battery charge/discharge efficiency | 95.0% | | | | | | | |
| Weight | 34kg | | | | | | | |
| Dimension [W*D*H, mm] | 675*200*415 | | | | | | | |
| Battery module | | | | | | | | |
| Battery type | Li-ion (LFP) | | | | | | | |
| Rated battery voltage | 51.2V | | | | | | | |
| Battery voltage range | 44.8~57.6V | | | | | | | |
| Capacity | 5.12kWh | | | | | | | |
| Weight | 53.6kg | | | | | | | |
| Dimension [W*D*H, mm] | 675*200*365 | | | | | | | |
| Certificate | | | | | | | | |
| EMC | EN61000-6-11-3 | | | | | | | |
| Safety | IEC62109-1, IEC62109-2 | | | | | | | |
| Grid | EN50549-1, VDE-AR-N-4105 VDE0124 NCR+G UTE and VFR 2019, CEI 0-21, C10/11, NRS097-2-1, G98&G99, NTS-631 TYPE A | | | | | | | |

Note: When using more than 4 battery modules, you need to add a controller box to connect to other battery modules.