

# ENERGY STORAGE SYSTEM

ME 3000SP

## Technical Data

## ME 3000SP

### Battery Parameters

|                              |         |                                   |
|------------------------------|---------|-----------------------------------|
| Battery Type                 |         | Lead-acid,Lithium-ion             |
| Nominal battery voltage      |         | 48V                               |
| Battery voltage range        |         | 40-60V                            |
| Recommended battery capacity |         | 200Ah (100~500Ah optional)        |
| Recommended Storage capacity |         | 9.6kWh                            |
| Max.Charging Current         |         | 60A                               |
| Charging Current Range       |         | 0-60A(Programmable)               |
| Charging curve               |         | 3-stage adaptive with maintenance |
| Max.Discharging Current      |         | 60A                               |
| Electronic protection        |         | OCP OTP OVP                       |
| Short circuit protection     |         | Fuse (100A)                       |
| Discharge times (Hour)       | Po=1kVA | 9.6h                              |
|                              | Po=3kVA | 3.2h                              |
| Depth of discharge           |         | Lithium: 0~80%DOD adjustable      |
|                              |         | Lead-acid:0~50%DOD adjustable     |

### AC Output

|                      |  |                              |
|----------------------|--|------------------------------|
| Max.Output Power     |  | 3kVA                         |
| Peak Power           |  | 1.5*Pnom ,10S; 1.2*Pnom ,30S |
| Rated Output Voltage |  | 230V                         |
| Max.Output Current   |  | 13A                          |
| AC Voltage Range     |  | 180V-270V                    |
| Grid Frequency Range |  | 44~55Hz / 54~66Hz            |
| THD                  |  | <3%                          |
| Power Factor         |  | 1(Adjustable +/-0.8)         |
| Connection phase     |  | single                       |

### System Parameters

|                            |  |  |
|----------------------------|--|--|
| Max.Charging Efficiency    |  | 94.5%  |
| Max.Discharging Efficiency |  | 94%  |
| Standby Losses             |  | <5W  |
| Topology                   |  | High Frequency Isolated Transformer                                      |
| Degree Of Protection       |  | IP65   |
| Safety Protection          |  | Anti islanding, RCMU, Groud Fault Monitoring                             |
| Certification              |  | AS4777,VDE0126-1-1,G83/2,C10/11,RD1699,UTEC15-712-1,EN50438,VDE-AR-N4105 |
| Communication              |  | WiFi,RS485,CAN2.0  |

### Environmental

|                                   |  |                                   |
|-----------------------------------|--|-----------------------------------|
| Ambient temperature range         |  | -25°C...+60°C (Above 45°Derating) |
| Allowable Relative Humidity Range |  | 0... 95%, No Condensing           |
| Max.Operating Altitude            |  | 2000m                             |
| Current Sensor Connection         |  | external                          |

### General Data

|                  |  |   |
|------------------|--|---|
| Noise            |  | <25dB                                     |
| Weight           |  | 16kg                                      |
| Cooling          |  | Natural                                   |
| Dimension(W*H*D) |  | 532*360*173mm                             |
| Display          |  | LCD display                               |
| Warranty         |  | 5 Years (Optional: extension to 10 years) |

### Emergency Power Supply

|                              |  |                 |
|------------------------------|--|-----------------|
| EPS rated power              |  | 3000VA          |
| EPS rated voltage, Frequency |  | 230V,50/60Hz    |
| EPS rated current            |  | 13A             |
| EPS peak power               |  | 1.5*Prated, 10s |
| Total harmonic distortion    |  | <3%             |
| Switich time                 |  | <3s             |



AS4777 G83/2 G59/3

CE, CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CEI 0-21