



BESS PRODUCT RANGE

Reliable Battery Energy Storage Systems



BESS50100HV

- **50kW 3-phase Max Continuous Output**
- **PowerSync Max Output 90kW**
- **1x 50kW High Frequency solid-state IGBT inverter**
- **100kWh -500V LFP High Voltage Battery (90kWh usable capacity)**
- **Dimensions 1120 W x 1760 L x 2000 H**
- **Weight 1800kgs**

BESS100140HV

- **100kW 3-phase Max Continuous Output**
- **PowerSync Max Output 180kW**
- **2x 50kW High Frequency solid-state IGBT inverters**
- **140kWh -350V LFP High Voltage Battery (126kWh usable capacity)**
- **Dimensions 1120 W x 2260 L x 2000 H**
- **Weight 2100kgs**

Common Features

Output

- **PhaseFlex** - Maximum rated output is available as an aggregate total across all phases – handles imbalanced loads.
- **PowerSync** - Harness the combined strength of your generator and battery, seamlessly synchronizing their output for continuous and reliable power to cover extreme peak loads. Configurable at the user interface.

Environmental

- IP55 Rated Design – protection from dust and water ingress
- HVAC temperature control, fully sealed cabinet – maintains internal battery cabinet temperature **5°C - 32°C** to maximize battery cycle life.
- Ambient outdoor temperature operating range **-10°C to +45°**

Generator / Solar Input

- **SmoothSync** - intelligently loads the generator to configurable level up to maximum system output rating
- 2-wire start/stop connection to generator for autonomous operation
- Built-in manual bypass switch for generator direct connect in the event of BESS electronic malfunction
- Dedicated AC PV input for AC-coupled PV connection
- Configurable State of Charge (SOC) triggers to start/stop generator
- 150% of Max Output Rating Peak Power for 10 sec surg

Other Features

- Touch screen HMI / Remote Monitoring and Management via custom web interface
- Advanced SCADA module that controls all major subsystems
- Field replaceable rack-mount battery packs – can be bypassed in the event of a malfunctioning or failed battery
- Simple 'one screen, one switch' operation
- Lifting via forklift or rated lifting lugs

* Specifications may change



MAKINEX[®]
RENEWABLES