

EnergyPack



ZERO
EMISSIONS



ZERO NOISE



PEAK
SHAVING



LOAD
SHARING



PLUG&PLAY



RENEWABLES
INTEGRATION

PERFORMANCE

| | | |
|-------------------------|-----|-----|
| Nominal rated power | kVA | 33 |
| Overload power(60s) | kVA | 41 |
| Nominal peak power(10s) | kVA | 100 |

ELECTRICAL

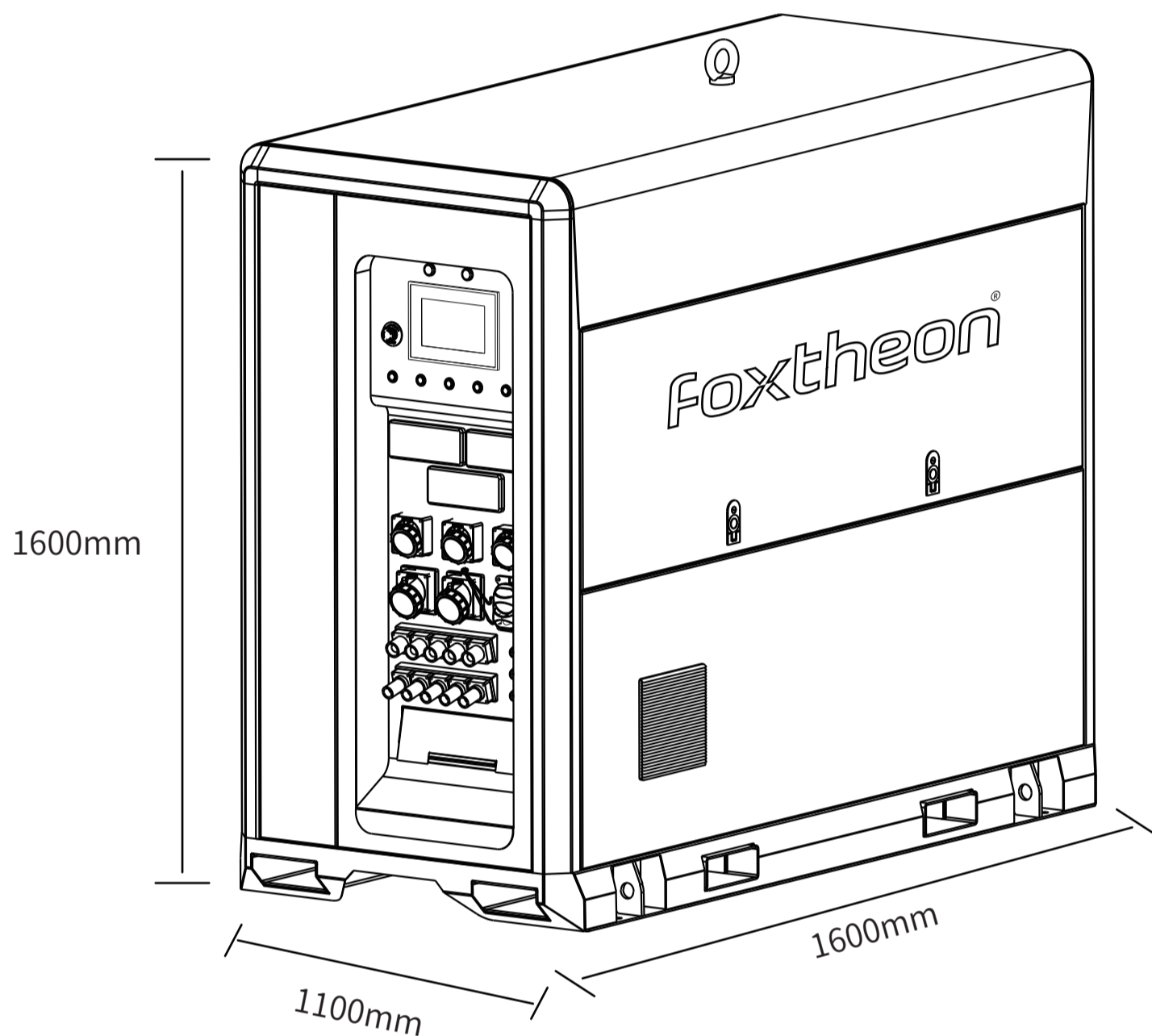
| | | |
|--------------------|-----|----------------|
| Voltage Range | VAC | 400±15% |
| Frequency | Hz | 50(60) |
| Power factor range | | -0.99 to +0.99 |
| Maximum AC current | A | 144 |

ENERGY

| | | |
|------------------------------|--------|----------------------------------|
| Cell chemistry | | LiFePO4 (Lithium Iron Phosphate) |
| Nominal capacity | kWh | 34 |
| Effective capacity | kWh | 30.6 |
| Recharging time | Hours | 2h@16kW |
| Discharging time | Hours | 1h@30kW |
| System round trip efficiency | % | up to 96% |
| DoD% (depth of discharge) | % | 90 |
| Lifetime (80% DoD) | Cycles | 7000 |
| Battery management system | | Automotive grade BMS |
| Maintenance charge cycle | | ≤ 36 weeks |
| Temperature control | | Liquid cooling / PI heating film |

| ENVIRONMENTAL | | |
|----------------------------|--------------|-------------------------|
| Protection class | | IP54 |
| Corrosion protection | | C3 (C5M) |
| Operating temperature | °C | -20 to +50 |
| Humidity | | 0-95% (no condensation) |
| Maximum operating altitude | m | 3000 |
| Sound power level | dB(A) @1m | <50 |

| MECHANICAL | | |
|------------------------|----|----------------|
| Dimensions (L x W x H) | mm | 1600*1100*1600 |
| Weight | kg | 950 |



SOCKET OPTIONS

| Input | | OP1 | OP2 |
|--------|--------------------|-----|-----|
| | CEE AC 400V 5P 63A | 1 | / |
| | POWERLOCK | 1 | 1 |
| Output | CEE AC 230V 3P 32A | 3 | 3 |
| | CEE AC 400V 5P 63A | 1 | 2 |
| | AC BUS | 1 | / |
| | POWERLOCK | / | 1 |

SCOPE OF SUPPLY

- Canopy
- High strength structure, high IP protection container
- Security
- Internal locker for batteries.
 - Anti-theft hinges and door lockers.
 - Earth pin without grounding rod.
- Transportability
- Transport Efficiency: The design includes a lifting eye, skid frame with forklift pockets, anti-theft features.

OPTIONALS

- Custom colors
- Custom sockets distribution (input and output)
- Extended galvanized baseframe
- Integrated mains control
- Integrated PV inverter
- EV Charge point
- STS panel
- Trailer

CONTROL

| | |
|------------------------|---|
| Control panel | Industrial grade rugged 7” touch screen HMI with configurable presets, data visualisation and logs |
| Protection | Overload, Overheat, Short Circuit, Earth Fault |
| Temperature control | Active forced air cooling |
| Remote generator start | Dry contact relay / MODBUS |
| Remote connectivity | Data-efficient M2M communications via cellular IoT and user notifications to Internet connected devices |
| Remote automation | FoxCloud Web APP |

FoxMind Energy Management System

FoxMind EMS is a power management system that automatically controls power distribution between generator, battery storage, PV, and mains systems, determining the most economical mix of power management of the whole system. It provides a simple and guided operation experience in choosing the appropriate working mode for any scenario, ensuring you a safe, efficient, and reliable energy supply.



Multiple Working Mode

Provides multiple operating modes selection for different working scenarios. The full functions EMS supports Island mode, Automatic Mains Failure, Fixed power, Peak shaving, Load take-over, Mains power export etc.



Integration Capability

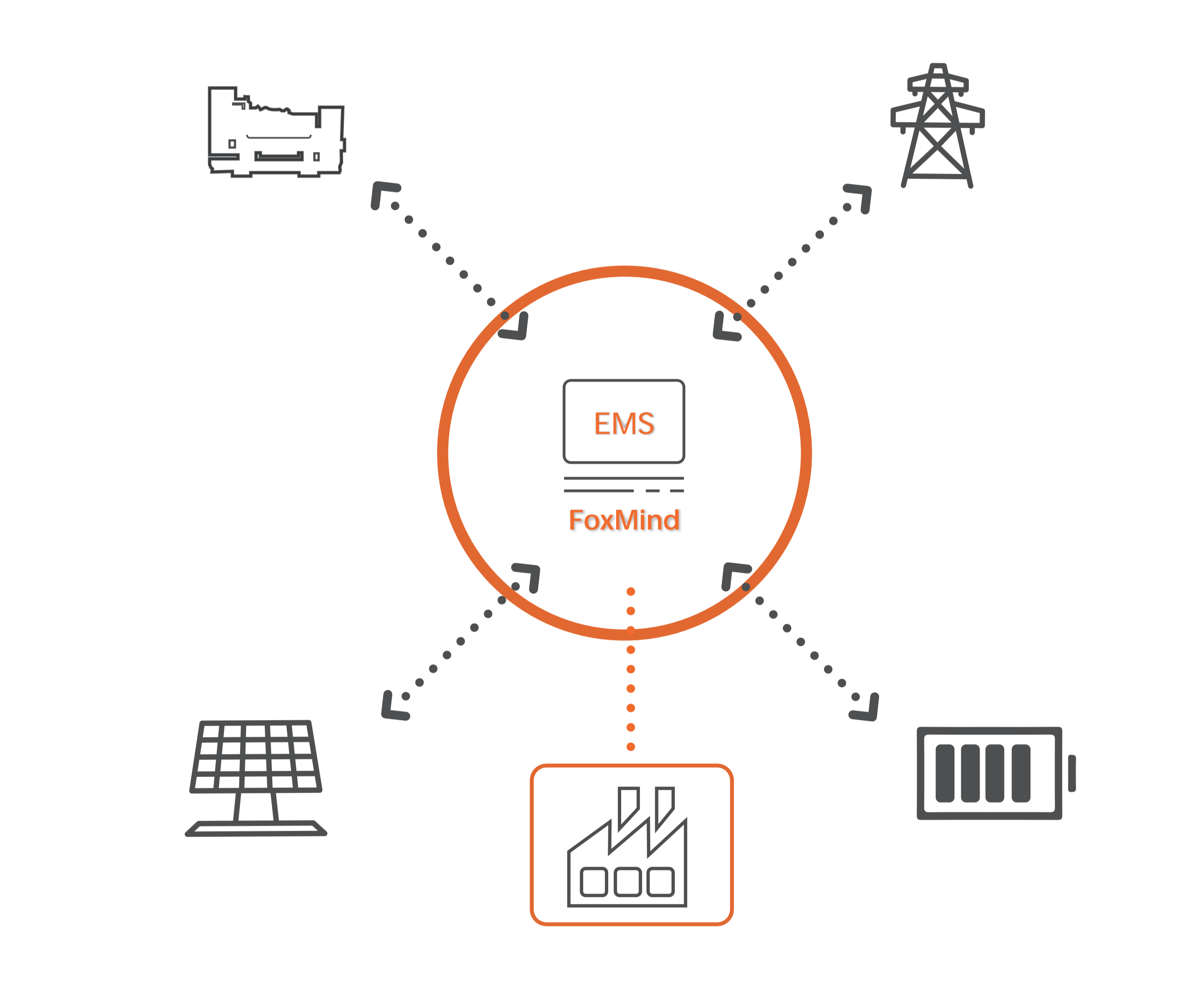
With the optional control units, the FoxMind EMS can automatically integrate various energy sources of generator, battery storage, PV, and mains.



Scalability

The power and capacity can be expanded by paralleling a maximum of 16 EnergyPack BESS.

With the optional generator control units (GCU), the system allows a maximum of 32 generator paralleling.



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