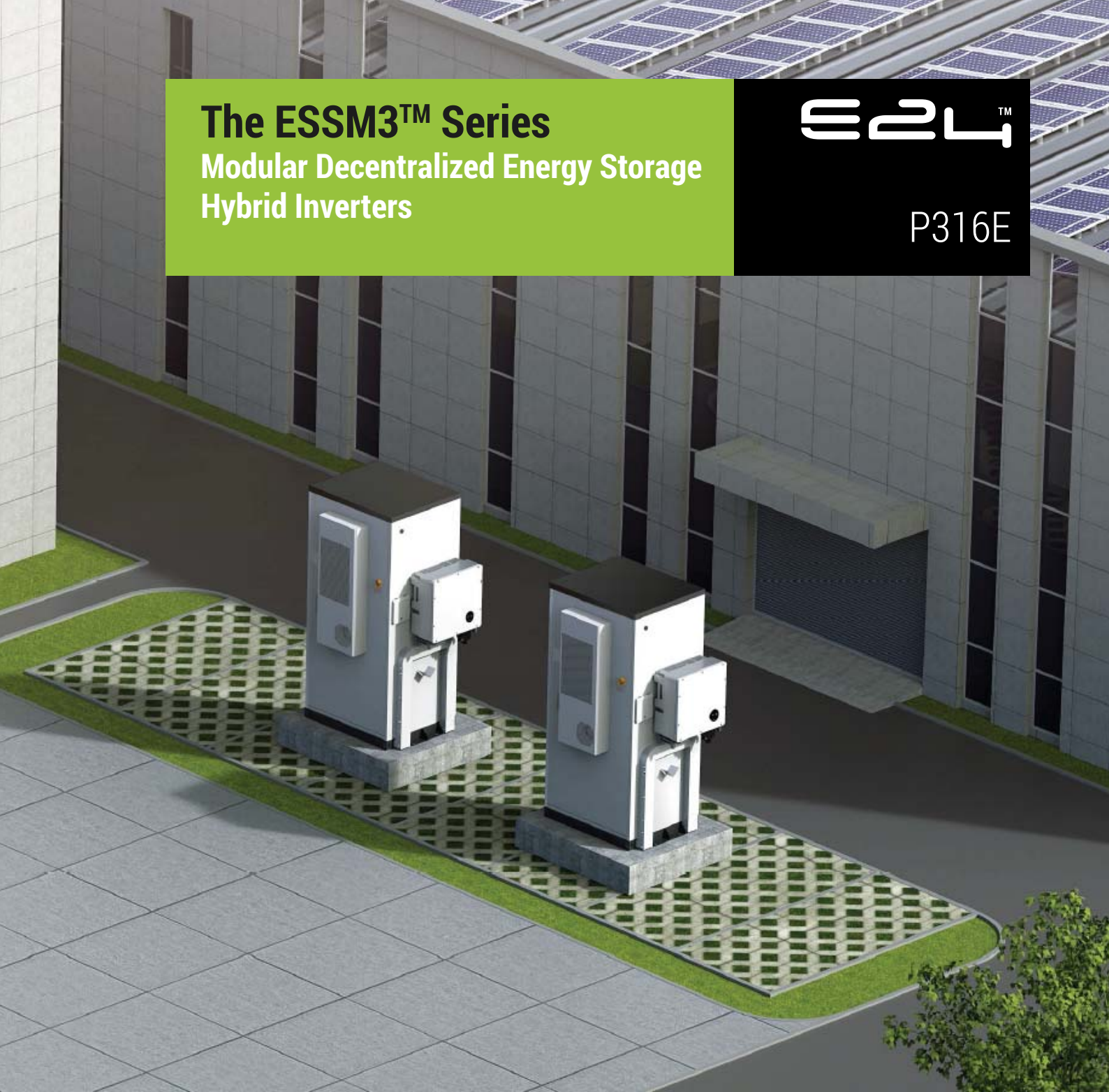


The ESSM3™ Series

Modular Decentralized Energy Storage Hybrid Inverters

E2L™

P316E



Modular Hybrid Inverters in 50KW and 125KW per Module to build large scale Decentralised Hybrid Energy Storage Systems

The ESSM3 Series, offers a range of modular PCS units in 50 or 125KW modules allowing to reach 2.4MW in off-grid, On-grid or Hybrid configuration.

The units may be installed indoor or outdoor. For outdoor applications, the ESSM# series includes temperature isolated cabinets and their temperature controlled AC units as well as the Energy Management Software (EMS) to program and manage the system operation seamlessly.

The units are designed to operate in conjunction with utility or Generator input and may be programmed with different priorities depending on the lowest cost of energy sources.

The 50KW unit has a solar PV inputs for DC coupling. The ESSM# series includes static switches in order to operate the units in off-grid, on-grid or hybrid modes automatically as programmed on the Energy Management System.

The ESSM3 Series allow for full cloud visualization of power conditions through a sophisticated cloud application.

The ESSM3™ Inverter



- Outdoor installation (IP 65 Waterproof)
- Modules of 50KW and 125KW
- 350 to 1000 Vdc Solar input (for 50KW Module)
- Super compact
- Works with or without solar panels
- Wide Utility/Generator input voltage
- Intuitive LCD display
- Built-in AC coupled function
- Seamless Unattended operation
- Pure Sine Wave Output
- Unbalanced load support
- Up to 97.5 % efficiency
- Unity power factor
- Up to 20 Units in Parallel
- Reverse connection protection
- DC Switch
- Over Temperature Protection
- Grid Monitoring and Earth Fault protection
- DC and AC Surge Protection
- Multiple Communication Ports (RS485, CAN-BUS, Dry Contact for BMS)

The ESSM3 inverters are built in modules of 50KW and 125KW units. Each that can be connected in parallel to reach a maximum power of 1000KW (20 x 50KW) or 2400KW (20 x 125KW).

The 50KW inverter may be connected to solar panels allowing DC coupling of 50KW while the 125KW module operates as a bidirectional battery inverter.

The ESSM3 inverters are battery agnostic allowing them to be used with any type of battery (Lead Acid, ELA, Lithium, ...). The ESSM3 inverters operate modular battery units that can also be increased based on client needs. They allow the user to gradually upgrade in either power or battery size at will in order to gradually adapt the system with his growing energy needs.

The ESSM3™ Inverters exceptional design meets basic modern requirements in terms of energy efficiency and environmental friendly applications for residential, business and Industrial applications.

E24's inverters employ transformerless high-frequency technology to offer the highest efficiency while providing silent operation.

ESSM3™ 50KW Inverter Specifications

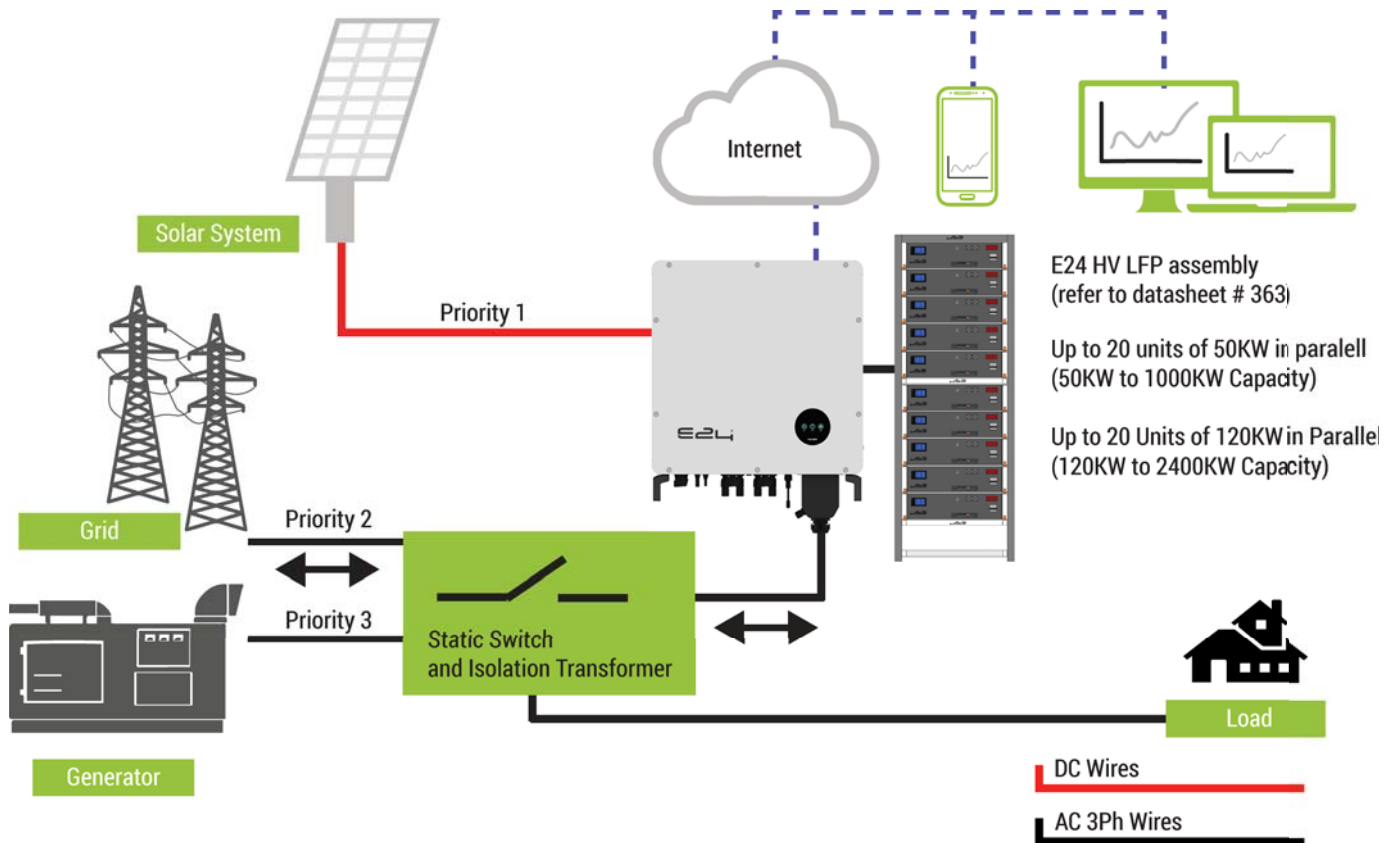
Product Specifications	ESSM3-50KI
PV Side	
Max. Input Voltage	1000 V
MPPT Voltage Range	350 V ~800 V
Max. Current per MPPT	36 A
Number of MPPT	3
Number of Inputs Per MPPT	2
Battery Side	
Max. Input Voltage	750 V
Min. Input Voltage	350 V
DC Voltage at Nominal Operation	500 V ~ 750 V
Max. DC Current	55 A*2
Max. DC Input Power	55 kW
Number of DC Inputs	2
AC Side (On Grid)	
Nominal AC Output Power	50 kW
Max. AC Output Power	55 kVA
Max. AC Current	80 A
Nominal AC Voltage	400 V
AC Voltage Range	340 V ~ 440 V
Nominal Grid Frequency/Frequency Range	50 / 60 Hz ±5Hz
THDv	< 3% (100% Load)
Adjustable PF Range	-1 (Lagging) ~ 1 (Leading)
AC Side (Off Grid)¹⁾	
Nominal AC Voltage	230 / 400 V ±3%; 3L+N+PE
THDv	< 3% (Linear Load)
Nominal Grid Frequency/Frequency Range	50 / 60 Hz
Nominal AC Output Power	50 kW
Max. AC Output Power	55 kVA
Efficiency	
Max. Efficiency	97.5%
Protection	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Grid Monitoring/Earthing Fault Detection	Yes
Insulation Monitoring	Yes
DC/AC Surge Protection	DC Type II; AC Type III
General Parameters	
Dimensions (WxHxD)	650 x 715 x 325 mm
Weight	75 kg
Topology	Transformerless
IP Protection	IP65
Operation Temperature Range	-25 ~ 60°C (> 45°C Derating)
Operation Humidity Range	0 ~ 100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	3000 m
Communication Port	RS-485 / CAN
Certificates	IEC 62477; IEC 61000; CE;GB/T; IEC 62109; IEC 61683; IEC 60068; IEC 61727; IEC 62116; EN 50549; VDE 4105; G 99

ESSM3™ 125KW Inverter Specifications

Product Specifications	ESSM3-125KI
Battery Side	
Max. Input Voltage	1000 V
Min. Input Voltage	580 V
DC Voltage at Nominal Operation	580 V ~ 1000 V
Max. DC Current	232 A
Max. DC Input Power	134 kW
Number of DC Inputs	1
AC Side (On Grid)	
Nominal AC Output Power	120 kW
Max. AC Output Power	132 kW
Max. AC Current	191 A
Nominal AC Voltage	400 V
AC Voltage Range	400 Vac, (-15% + 10%)
Nominal Grid Frequency/Frequency Range	50 / 60 Hz ±5Hz
THDv	< 1.5% (Rated Power)
Adjustable PF Range	-1 ~+ 1
AC Side (Off Grid)¹⁾	
Nominal AC Voltage	230 / 400 V ±3%; 3L+N+PE
THDv	< 1% (Resistive Load)
Nominal Grid Frequency/Frequency Range	50 / 60 Hz
Nominal AC Output Power	120 kW
Max. AC Output Power	132 kVA
Efficiency	
Max. Efficiency	98.5%
Protection	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Insulation Monitoring	Yes
DC/AC Surge Protection	Type II(DC side); Type III(AC side)
General Parameters	
Dimensions(WxDxH)	650 x 310 x 900 mm
Installation	Wall Mounted / Plug in
Weight	80 kg
Topology	Transformerless
IP Protection	IP66
Operation Temperature Range	-40 ~ 60°C (> 45°C Derating)
Operation Humidity Range	0 ~ 100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	5000 m / (> 3000 m Derating)
Communication Port	RS-485 / CAN 2.0
Standards	CE; IEC 61000; IEC 62477-1; 2012; IEC 61727; IEC 62116; GB/T 34120; GB/T 34133

The ESSM3™ Series indoor applications

The ESSM3™ Hybrid Inverter use high DC voltage requiring LFP batteries having a voltage ranging between 500 Vdc and 750 Vdc. We therefore recommend the usage of E24 pre-configured LFP battery assemblies as detailed in datasheet ref: 363.



The ESSM3 inverters may be configured to operate in off-grid, on-grid or both modes as set on the Energy Management System (EMS).

In the event where the system is designed to operate only in on-grid mode, there is no need to install the optional static switch. Under this configuration, the inverter will supply power to the load and grid as programmed under the EMS but will not be able to power the load if both utility and generator are not available.

In off-grid mode, it is necessary to connect the optional static switch and isolation transformer unit in order to allow the disconnection of the circuit between Utility/Gen and the load in order for the inverter to power the load on batteries during a power interruption. The isolation transformer provides galvanic isolation that is necessary in particular when the load is of industrial nature.

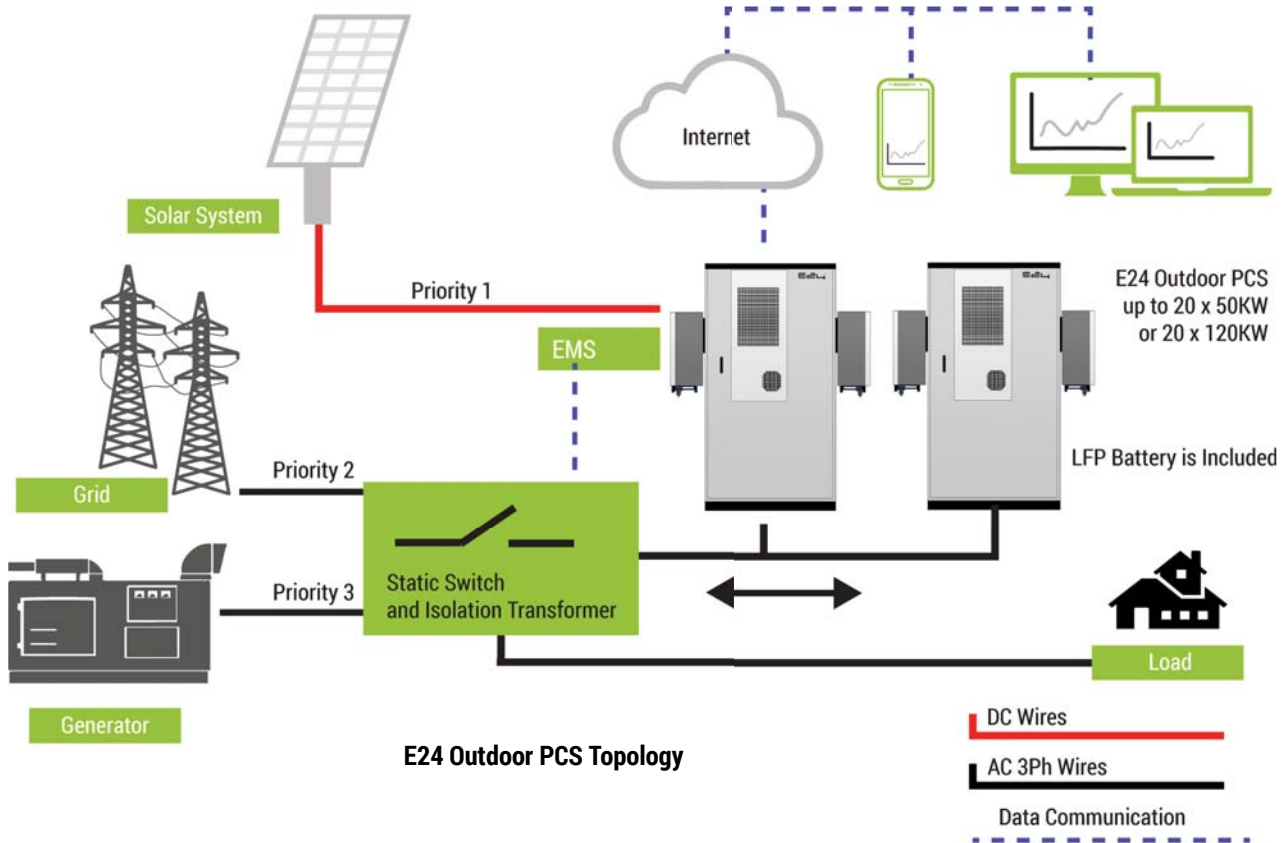
The ESSM3 inverters may be used indoor or outdoors.

When used indoor, it is recommended to combine E24 HV LFP batteries in a manner to be compatible with the inverter DC input voltage range (refer to E24 datasheet # 363).



The ESSM3™ Series Outdoor applications

The ESSM3™ Hybrid Inverter Series is engineered to adapt to almost multiple existing number of energy sources in a manner to optimise energy costs and minimize generator operation while offering immediate power backup to the user.



When used in an outdoor application, it is recommended to combine E24 HV LFP batteries in a manner to be compatible with the inverter DC input voltage range (refer to E24 datasheet # 363).

The 50KW inverter has 2 DC inputs allowing it to be connected to 1 or 2 battery cabinets, while the 125KW inverter has only one battery input.

ESSM3-50KI (50KW inverter) is compatible with ESSM3-BAT102 while ESSM3-120KI (125KW inverter) is compatible with either ESSM3-BAT197, ESSM3-BAT215, ESSM3-BAT233 for DC input Voltage reasons.

The ESSM3™ Standard Outdoor Battery Cabinets



ESSM3-BAT102

Technical information:

Battery Type:	LFP
Battery Module Capacity (kWh):	5.12
Number of Modules:	10 x 2
Total Battery capacity (kWh):	102.4
Voltage Range (Vdc):	448 - 565
Charge / Discharge rate:	0.5C
Depth of Discharge (DoD):	90%
Nominal Voltage (Vdc):	512
Number of Cycles @ 80% DOD (0.5C):	8000

General Information:

Dimensions (WxDxH in mm)	1100x1100x 2380
Weight (Kg):	1500
Installation Site:	Outdoors
IP Protection	IP54
Anti-Corrosion Level:	C4
Operation Humidity:	5 to 95%
Operating Temperature (deg C):	-30 to 50
Max Operation Altitude (m):	3000
Communication:	Ethernet, Can
Communication protocol:	Can, Modbus TCP/IP
Cooling Method:	Air Conditioning
Standards:	IEC62619-2017, UN38.3, IEC61000-6-2/4



ESSM3-BAT197

Technical information:

Battery Type:	LFP
Battery Module Capacity (kWh):	17.92k
Number of Modules:	11
Total Battery capacity (kWh):	197
Nominal voltage (Vdc):	616-792
Charge / Discharge rate:	0.5C
DoD:	90%
Nominal Voltage (Vdc):	704
Number of Cycles @ 80% DOD (0.5C):	8,000

General Information:

Dimensions (WxDxH in mm)	1300x1200x 2380
Weight (Kg):	2500
Installation Site:	Outdoors
IP Protection	IP54
Anti-Corrosion Level:	C4
Operation Humidity:	5 to 95%
Operating Temperature (deg C):	-30 to 50
Max Operation Altitude (m):	3000
Communication:	Ethernet, Can
Communication protocol:	Can, Modbus TCP/IP
Cooling Method:	Air Conditioning
Standards:	IEC62619-2017, UN38.3, IEC61000-6-2/4

**ESSM3-BAT215****Technical information:**

Battery Type:	LFP
Battery Module Capacity (kWh):	17.92k
Number of Modules:	12
Total Battery capacity (kWh):	215
Nominal voltage (Vdc):	672-864
Charge / Discharge rate:	0.5C
DoD:	90%
Nominal Voltage (Vdc):	768
Number of Cycles @ 80% DOD (0.5C):	8,000

General Information:

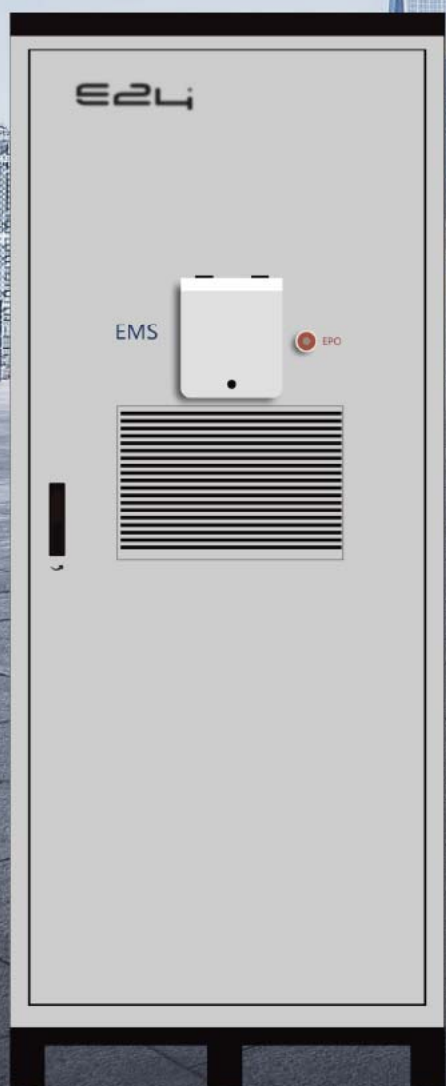
Dimensions (WxDxH in mm)	1300x1200x 2380
Weight (Kg):	2500
Installation Site:	Outdoors
IP Protection	IP54
Anti-Corrosion Level:	C4
Operation Humidity:	5 to 95%
Operating Temperature (deg C):	-30 to 50
Max Operation Altitude (m):	3000
Communication:	Ethernet, Can
Communication protocol:	Can, Modbus TCP/IP
Cooling Method:	Air Conditioning
Standards:	IEC62619-2017, UN38.3, IEC61000-6-2/4

ESSM3-BAT233**Technical information:**

Battery Type:	LFP
Battery Module Capacity (kWh):	17.92k
Number of Modules:	13
Total Battery capacity (kWh):	233
Nominal voltage (Vdc):	728-936
Charge / Discharge rate:	0.5C
DoD:	90%
Nominal Voltage (Vdc):	832
Number of Cycles @ 80% DOD (0.5C):	8,000

General Information:

Dimensions (WxDxH in mm)	1300x1200x 2380
Weight (Kg):	2500
Installation Site:	Outdoors
IP Protection	IP54
Anti-Corrosion Level:	C4
Operation Humidity:	5 to 95%
Operating Temperature (deg C):	-30 to 50
Max Operation Altitude (m):	3000
Communication:	Ethernet, Can
Communication protocol:	Can, Modbus TCP/IP
Cooling Method:	Air Conditioning
Standards:	IEC62619-2017, UN38.3, IEC61000-6-2/4



Optional Static Switches

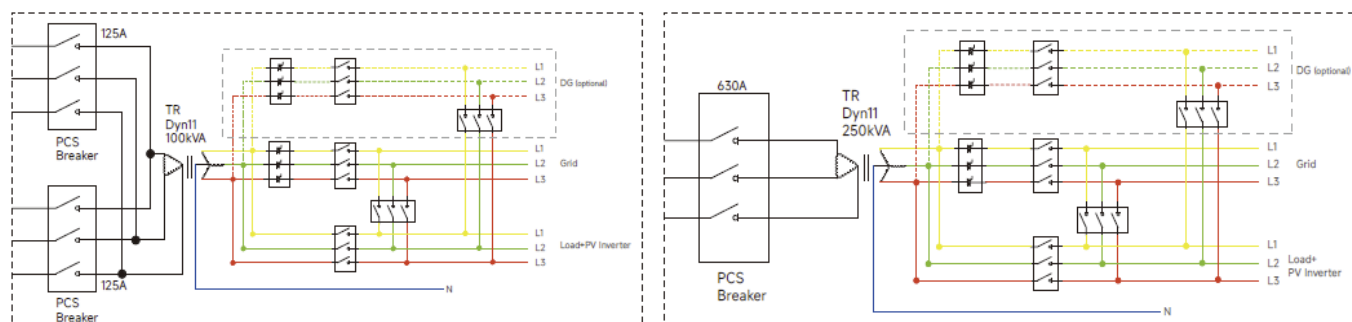
The ESSM3 inverters may be configured to operate in off-grid, on-grid or both modes as set on the Energy Management System (EMS).

In the event where the system is designed to operate only in on-line mode, there is no need to install the optional static switch.

Under this configuration, the inverter will supply power to the load and grid as programmed under the EMS but will not be able to power the load if both utility and generator are not available.

In off-grid mode, it is necessary to connect the optional static switch in order to allow the disconnection of the circuit between Utility/Gen and the load in order for the inverter to power the load on batteries during power interruption.

The Static Switch also includes an isolation transformer allowing to galvanically isolate the load from the batteries. This is necessary in particular when powering industrial applications.



Parameter			
Rated Voltage	400 V		400 V
Rated Current	144 A		360 A
Rated Frequency	50 Hz		50 Hz
Rated Power	100 kVA		250 kVA
Max. grid Input Power	200 kVA		500 kVA
Switch Time Between On/Off-grid	≤ 20ms		≤ 20 ms
PCS Input	125 A*2		630 A
Max. grid Input	400 A		1000 A
DG Input(Optional)	400 A		1000 A
Load Breaker	400 A		1000 A
Grid/DG Bypass Breaker	200 A*2		630 A*2
Isolation Transformer	100 kVA		250 kVA
Lightning Protection	Type II		Type II
Protection Degree	IP54		IP54
Relative Humidity	0 ~ 100%		0 ~ 100%
Operating Temperature	-25°C ~+ 45°C		-25°C ~+ 45°C
Cooling Type	Air Cooling		Air Cooling
Dimension(WxDxH)	1170 x 2380 x 1105 mm		900 x 2380 x 930 mm
Weight	791 kg		1250 kg
Operating Altitude	≤ 3000 m		≤ 3000 m
Communication	RS-485 / 4G / Ethernet		RS-485 / 4G / Ethernet
Installation	Tower - type		Tower - type

Second Level EMS Communication Box



- **Dual Power Source (220Vac and 24Vdc)**
- **Supports remote Monitoring (Wifi/4G and local monitoring via web page)**
- **IP65 outdoor design**

A second level energy management system (EMS), also known as a two-layer or dual-layer EMS, is a hierarchical system used to optimise energy consumption and distribution, particularly in complex energy systems like microgrids, multi-microgrid systems, and industrial settings. These systems typically involve a supervisory or higher-level layer that makes strategic decisions based on long-term objectives, and a lower-level layer that executes those decisions in real-time.

Here's a breakdown of how these systems work:

1. Higher-Level (Supervisory) Layer:

Long-term planning and optimization: This layer focuses on optimising energy usage over a longer time horizon (e.g., day-ahead, week-ahead).

Strategic decision-making: It makes decisions about energy procurement, generation, storage, and distribution based on factors like energy prices, weather forecasts, and user demands.

Example applications: Determining optimal energy generation from renewable sources, setting retail electricity prices in multi-micro-grid systems, or configuring the capacity of energy storage systems.

2. Lower-Level (Real-time) Layer:

Fast execution and control: This layer focuses on the real-time implementation of the higher-level plan, adjusting energy flow and consumption to match the strategic decisions.

Dynamic response: It ensures the system responds quickly to changes in demand, supply, and other factors.

Examples: Power converters (DC-DC converters, inverters) distributing power among different components of a microgrid, or controlling the charging/discharging of energy storage systems.

Benefits of a Two-Layer EMS:

Improved efficiency: By optimizing energy usage over longer timeframes and responding dynamically to real-time conditions, two-layer EMS can significantly improve overall energy efficiency.

Cost savings: Optimizing energy procurement and distribution can lead to reduced energy costs.

Increased reliability: The ability to respond to unexpected events and maintain power balance can enhance the reliability of the energy system.

Flexibility and scalability: Two-layer EMS can be adapted to various system sizes and complexities, from microgrids to large industrial facilities.

Integration of renewables: They can effectively integrate intermittent renewable energy sources like solar and wind power by optimising their output and energy storage.

Examples of Applications:

Micro-grids: Managing energy generation, storage, and consumption within a localized grid, often integrating renewable energy sources.

Multi-microgrid systems: Coordinating energy sharing and trading between multiple interconnected micro-grids.

Industrial settings: Optimising energy consumption in manufacturing and production facilities, reducing energy-intensive operations.

Community Energy Management Systems (CEMS): Coordinating energy usage across a community, often involving demand response and energy sharing.

In essence, a two-layer EMS provides a structured and effective approach to managing complex energy systems, enabling greater efficiency, cost savings, and reliability.

Second Level EMS Specifications

MODEL	ESSM3-EMS2
Southbound Communication	
Southbound EMS Communication Method	Ethernet (Electrical)
Max. number of Southbound EMS	20
Max. distance of Southbound Communication	100 m
Ethernet Port Parameter	10 / 100 Mbps Adaptive
Northbound Communication	
Northbound Communication Method(Default)	Ethernet (Electrical / Optical Fiber)
Northbound Communication Method(Optional)	WLAN / 4G
Local Display	Embedded Web
Indicator Lights	Power, Running, Fault+Ethernet Status Indicators
Port Parameters	
Number of RS485 Interfaces	7
USB Interface	1 with USB2.0
SD Interface	1
Digital Input Detection Interface	8
Digital Output Control Interface	4, NO+NC
Indicator Lights	Power, Running, Fault + Ethernet Status Indicators
Environmental Parameters	
Operating Temperature Range	-30°C - + 55°C
Storage Temperature Range	-40°C - + 70°C
Operating Relative Humidity	5% ~ 95% (No condensation)
Electrical Parameters	
Power Supply	DC / AC Redundant Power Supply
AC power Supply Voltage Range	85 - 264 VAC
DC power Supply Voltage Range	13 - 36 VDC
Standby Power Consumption	< 20 W
Mechanical Parameters	
O&M Method	Front Panel Access
Dimensions(WxDxH)	560 x 300mm x 600 mm
Weight	34 kg
IP Degree	IP65
Installation Method	Wall / Bracket / Floor Mounted

Power Control Box



- **Maximum number of inverter up to 80**
- **Maximum distance of inverter communication up to 1000m**
- **Upload the real-time operating data to local monitoring or cloud server Supports multiple communication modes**

The power monitoring box, is designed to track and manage electrical power generation and consumption, ensuring the monitoring of individual inverters as well as providing an accurate measurement of all energy parameters of the main power bus.

Energy Consumption Management: Tracks power usage, helping users understand where energy is being consumed and identify potential areas for energy savings,

Power Quality Monitoring: Monitors voltage, current, and other electrical parameters for fluctuations and anomalies, ensuring stable and reliable power delivery.

Data Logging and Analysis: Records historical power data, allowing for analysis to optimise system performance and predict future needs.

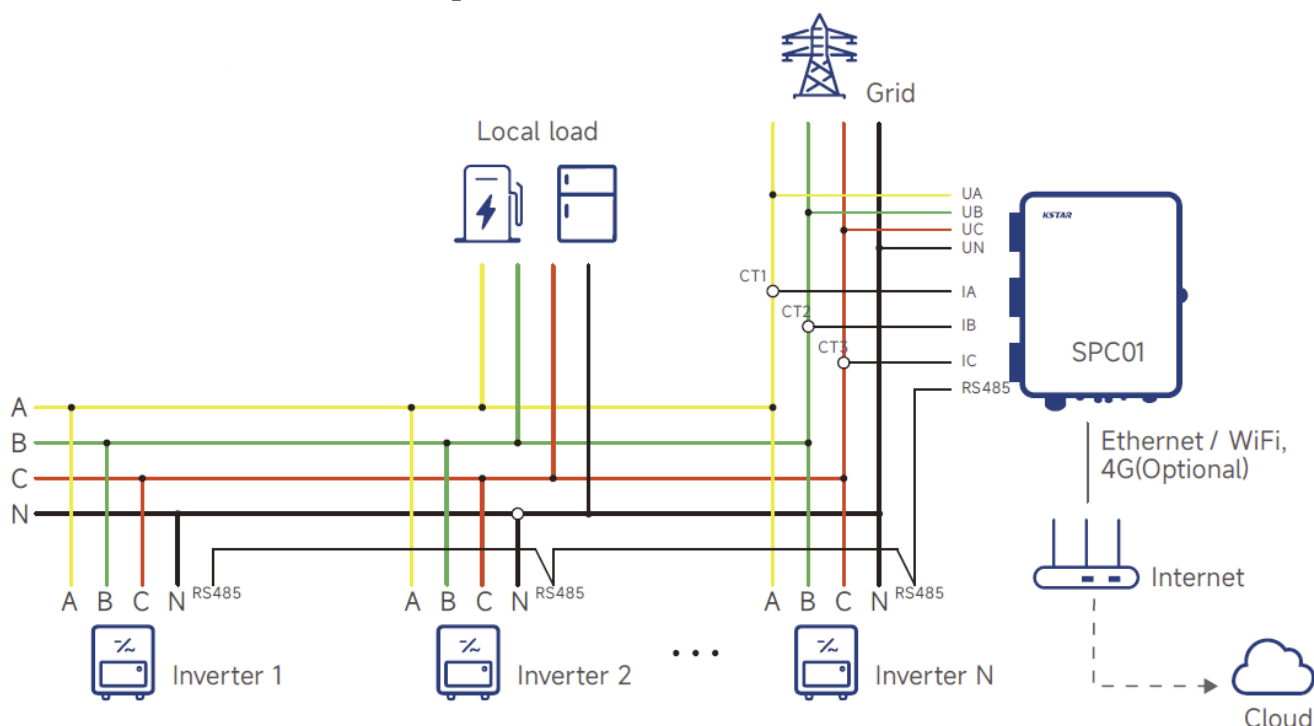
Safety and Protection: Detects potential hazards like overloads, short circuits, and voltage surges, triggering alerts or protective actions to prevent damage or accidents.

Remote Monitoring and Control: Supports remote access through web interfaces or mobile applications, enabling users to monitor and control the system from anywhere.

Alarm and Notification Systems: Provides alerts for abnormal power conditions, allowing for timely intervention and preventing potential problems.

Integration with other systems: Can be integrated with building management systems or other IoT platforms for comprehensive control and automation.

Connection and Specifications



Technical Specifications	ESSM3-PCB
Input	
Rated Input Voltage	230 VAC (L-N) / 400 VAC (L-L)
Input Voltage Range	173 - 480 VAC
Grid Connection Type	3W + N + PE
Rated Input Frequency	50 / 60 Hz
Input Frequency Range	45 - 65 Hz
Lightning Protection Grade	Grade C
Communication	
Inverter Communication	RS-485*4
Max. number of Inverter	80
Max. distance of Inverter Communication	1000 m
Communication	Ethernet / WiFi / 4G (Optional)
HMI	Bluetooth + Indicator Light
Function	
Communication Failure Shutdown	Yes
Remote Update	Yes
Zero Export	Yes
Zero-export Response Time	2s
Zero-export Control Accuracy	3%
Mechanical Parameter	
Dimensions(WxDxH)	420 × 132 × 320 mm
Weight	4 kg
Operation Temperature Range	-25 - + 60°C
Cooling Type	Natural Convection
Max. Operation Altitude	3000 m
Operation Humidity	0 - 100% (No Condensation)
IP Class	IP65
Installation	Wall / Rack Mounted



Wifi Module

The Wifi module allows the connection of inverters to the logger or the connection of the logger(s) to a central monitoring station

Technical Specifications		ESSM3-PCB
Input		
Rated Input Voltage		230 VAC (L-N) / 400 VAC (L-L)
Input Voltage Range		173 - 480 VAC
Gird Connection Type		3W + N + PE
Rated Input Frequency		50 / 60 Hz
Input Frequency Range		45 - 65 Hz
Lightning Protection Grade		Grade C
Communication		
Inverter Communication		RS-485*4
Max. number of Inverter		80
Max. distance of Inverter Communication		1000 m
Communication		Ethernet / WiFi / 4G (Optional)
HMI		Bluetooth + Indicator Light
Function		
Communication Failure Shutdown		Yes
Remote Update		Yes
Zero Export		Yes
Zero-export Response Time		2s
Zero-export Control Accuracy		3%
Mechanical Parameter		
Dimensions(WxDxH)		420 × 132 × 320 mm
Weight		4 kg
Operation Temperature Range		-25 - + 60°C
Cooling Type		Natural Convection
Max. Operation Altitude		3000 m
Operation Humidity		0 - 100% (No Condensation)
IP Class		IP65
Installation		Wall / Rack Mounted



"E24's technology thrives on optimization, automation, and advanced data monitoring"

Advanced Energy Management Systems, Software, IOT & Web Monitoring Technology

"That which is measured improves. That which is measured and reported improves exponentially."

- Karl Pearson

E24 Technology is all about optimization and automation allowing customers to save energy, save on the environment and improve quality of life.

At E24, advanced software is at the heart of each solution provided allowing to simplify operations while optimizing return on investment.

All solutions are software customized to best fit their working environment and the energy conditions and tariffs under which they are operated. Each customer, each application, and each region is different. This is why E24 software is designed to be easily configured upon commissioning to adapt perfectly to the application, customer requirements and load profile.

E24 offers IOT and Web monitoring services allowing customers to monitor all data related to their energy infrastructure. This includes equipment that may or may not be part of E24 provided solutions. E24 Software can, of course, be configured to notify customers of any anomaly or threshold reached for his needed actions.

Depending on the solutions purchased E24 offers adapted standard and custom designed IOT and Web Monitoring services that allow customers to monitor all data related to their energy infrastructure and see historical information dating up to 10 years.

E24 IOT & Web Monitoring Solutions

Cloud Monitoring add-ons allow customers to visualise all data related to their energy infrastructure from their PC, laptop or smartphone. Customers are also able to download their data dating back up to 10 years for their analysis.

IOT Solutions allow customers to view their data through a user-friendly interface, and accordingly take actions such as starting or stopping certain equipment, modifying settings or other actions, all done remotely from any internet device.

Customising Services allow E24 to modify its software to best suit customers' existing energy infrastructure. This may include setting-up communication links with SCADA systems or any bidirectional exchange of information.



Hybrid



Storage Inverter



Battery



and much more ...

E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

E24 products dynamically evolve with the lifestyle and work style of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers. Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering easy upgrade options.



Ordering Information

Ref. Number	Description
ESSM3-50KI	IP65 Bidirectional Inverter with PV input, 50KW, 3Phase, 350-750Vdc, 400/230V, 50/60Hz
ESSM3-125KI	IP65 Bidirectional Inverter with PV input, 125KW, 3Phase, 350-750Vdc, 400/230V, 50/60Hz
ESSM3-BAT102	IP 54 Outdoor LFP Battery, 102.4KWh with EMS, Cooling, communication but without Static Switch
ESSM3-BAT197	IP 54 Outdoor LFP Battery, 197KWh with EMS, Cooling, communication but without Static Switch
ESSM3-BAT215	IP 54 Outdoor LFP Battery, 215KWh with EMS, Cooling, communication but without Static Switch
ESSM3-BAT233	IP 54 Outdoor LFP Battery, 233KWh with EMS, Cooling, communication but without Static Switch
ESSM3-ST5-100KI	STS unit for 2 x 50KW inverters in off-grid mode
ESSM3-ST5-250KI	STS unit for 5 x 50KW Inverters in off-grid mode
ESSM3-EMS2	2nd Level EMS for on-Grid parallel application for ESSM3 systems
ESSM3-PCB	Power Control Box
ESSM3-WIFI	Stick Wifi Logger
ESSM3-ACM	3 Phase AC Meter without CTs
ESSM3-CK1	Connecting Kit for 1 x ESSM3-50KI and ESSM3-BAT102
ESSM3-CK2	Connecting Kit for 1 x ESSM3-50KI and 1 x ESSM3-BAT197
ESSM3-CK3	Connecting Kit for ESSM3-50KI with an Additional Battery Cabinet



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