

# essmate-1600

## Overview

essmate-1600 is a high integration home energy hub with 1619wh LFP battery, on grid bi-direction PCS and smart energy management system, which can be used both as balcony solar energy storage system with 800W output or portable power station with 1200W output.

## Product Features

- High integration with less connections, plug and play design, save 50% installation time.
- Support both on grid and off grid function, better service your indoor and outdoor life.
- Support electricity price arbitrage, maximize your energy earning through the product.
- Compact and light design with foldable hand, save more your space and power.
- EV battery cell, high safety and high energy density with >6000 lifecycle.
- Standard with battery heater, ensure your electricity safety in low temperature.
- High IP level, suitable for outdoor deployment.

## Product Specification



### General Information

Model name	essmate-1600
Battery Type	LiFePO4
Lifecycle(80%DoD/70%EoL)	6000
Capacity [Wh]	1619
Charging/Discharging Temperature	-20°C ~ 45°C
Wireless type	4G/WIFI/Bluetooth
Warranty[year]	10
Weight [Kg]	16
Dimensions [mm]	300*215*250

### PV Input

Max. PV Array Power [Wp]@STC	1200
MPPT Voltage Range [V]	10~60
Rated DC Voltage [V]	36
No. of MPPT	2
Rating Input Current [A]	15
Maximum Input Current [A]	16
MPPT Efficiency Max	>99%

### AC Output(On Grid)

Rated AC Power [W]	800
Rated AC Voltage [V]	230
Rated AC Voltage Range [V]	L+N+PE,184 ~ 253
Rated Output Frequenc[Hz]	50
Rated Output Current [A]@230Vac	3.5
Max. Output Current [A]	4
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging

### AC Output(Off Grid)

Rated AC Power [W]	1200
Rated AC Voltage [V]	230
Rated Output Frequenc[Hz]	50
Rated Output Current [A]@230Vac	5.2
Max. Output Current [A]	9.5A,5S
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging

### AC Input

Rated AC Power [W]	800
AC Power(Fast Charge mode) [W]	1200
Rated AC Voltage [V]	220/230/240
Rated Input Frequency [Hz]	50
Max. Input Current [A]@230Vac	5.2