SILENCE POWER

POWER GENERATION & STORAGE

Vehicle-mounted MobilePower Supply

MasterPower®

Master Battery, S.L.
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MASTER BATTERY

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PRODUCT FUNCTION

- **Power Generation & Storage for Max. Efficiency:** No need for high-power generators—Silence Power intelligently balances PCS power and generation to reduce fuel consumption.
- **Flexible Power Modes for Any Scenario:** With a large 560kWh capacity, it supports hybrid, off-grid, AC/DC coupling, and more, adapting seamlessly to diverse energy needs.
- **Smart Management with Remote Control:** Built-in EMS system enables real-time monitoring and remote control via Web & App for effortless operation.
- **Versatile Compatibility for All Power Needs:** Multiple voltage outputs (480V, 208V, 240V, 120V) for residential, commercial, and industrial use.
- **High-Power Output, Handles Heavy Loads with Ease:** Delivers up to 324kW instant output, ensuring stable power supply for demanding applications.
- **All-in-One Charging Solution:** Supports Combo fast charging, Type-C & Type-A ports, powering EVs, storage systems, and digital devices.

PRODUCT FEATURES

- **Multi-Source Energy Input:** Powered by a 560kWh LiFePO4 battery, supporting grid, diesel generators, and 120kW solar DC charging for seamless energy integration.
- **Portable Durability:** Towable for rapid deployment, with IP54/NEMA 3R protection ensuring durability in harsh environments.
- **Optimized Generator Usage:** Pairs with 400kVA generators, reducing upfront investment, fuel consumption, and maintenance costs for smarter power solutions.
- **Smart Operation and Maintenance:** Comes with a complete EMS that is easy to upgrade, featuring big data management checks, proactive handling, and intelligent SOC calibration to ensure optimal performance with zero downtime.

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APPLICATION SCENARIO

EARTHQUAKE RELIEF

ROAD REPAIR & MAINTENANCE

MINING

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PRODUCT PARAMETER

Battery Energy Storage	
Cell Chemistry	LiFePO4
Nominal Energy	560
Voltage Range (Vdc)	750~908.8
Nominal Charging Current (A)	330
Nominal Discharging Current (A)	330
Max. Discharging Current (A)	400
DOD	90%

Mobile Charging	
USB C *1 (W)	120
USB A *1 (W)	10

PV Input	
Input Power (kW)	120
Input Voltage Ranger (Vdc)	750~908.8

AC Output (230Vac Output)	
Rated Power (kVA)	90
Rated Voltage (Vac)	230
AC Connection	1P2W

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AC Output (400Vac Off-Grid)	
Rated Power (kVA)	270
Max. Power (kVA)	324
Rated Voltage (Vac)	400
Rated Voltage Range (Vac)	340~460
Rated Frequency (Hz)	50 (-5~5)
AC Connection	3P4W
Power Factor	0.99/-1~1

AC Output (400Vac On-Grid)	
Rated Power (kVA)	270
Rated Voltage (Vac)	400
Rated Voltage Range (Vac)	340~460
Rated Frequency (Hz)	50 (-5~5)
AC Connection	3P4W
THDi	≤ 3%
Voltage Ripple Coefficient	≤ 1%
Power Factor	0.99/-1~1

Compatible Diesel Generator	
Rated Power (kVA)	≤ 400
Rated Voltage (Vac)	400
Rated Frequency (Hz)	50

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EV Charging & Charging ESS (AC Charging)	
Interface Type	Combo (IEC62196-1/3)
Current Rating (A)	63
Rated Power (kW)	14.4
Input/Ouput Voltage (Vac)	230
Input/Ouput Voltage Range (Vac)	207~253
Input Frequency (Hz)	50
AC Connection	1P2W

EV Charging & Charging ESS (DC Charging)	
Interface Type	Combo (SAEJ1772)
Rated Power (kW)	120
Output Voltage (to EV) (Vdc)	150~1000
Input Voltage (to ESS) (Vdc)	750~908.8

General Parameters	
Product Model	Silence Power
Parallel Capable	Up to 6
Ingress Rating	IP54/NEMA 3R
Operating Temperature (°C/°F)	-20~55/-4~131
Storage Temperature (°C/°F)	-40~65/-40~149
Relative Humidity (RH)	5~ 95%, non-condensation
System Noise (dB)	< 65

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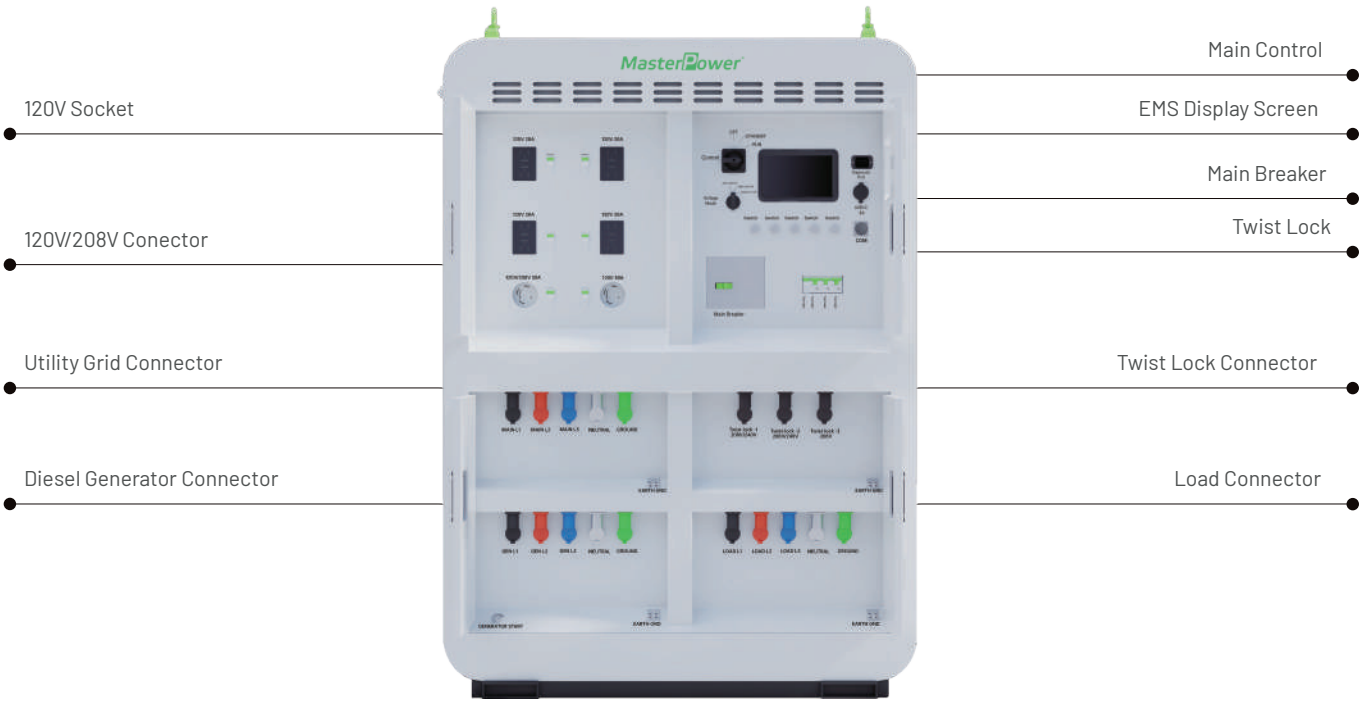
General Parameters	
Cooling	Air-cooling
Fire Suppression System	Included
Altitude	5000m/16404ft (>3000m/10000ft derating)
Certifications	IEC 62619, EN 62109-1, EN 62109-2 EN 61851-1, EN 61851-23, EN 61851-24 EN 62477-1, EN 62909-1, EN 62909-2
Dimensions - W*D*H (mm/in)	1752*4140*2000/69*163*79
Weight (kg/lb)	~5500/~12,125.4

SYSTEM INTERFACE



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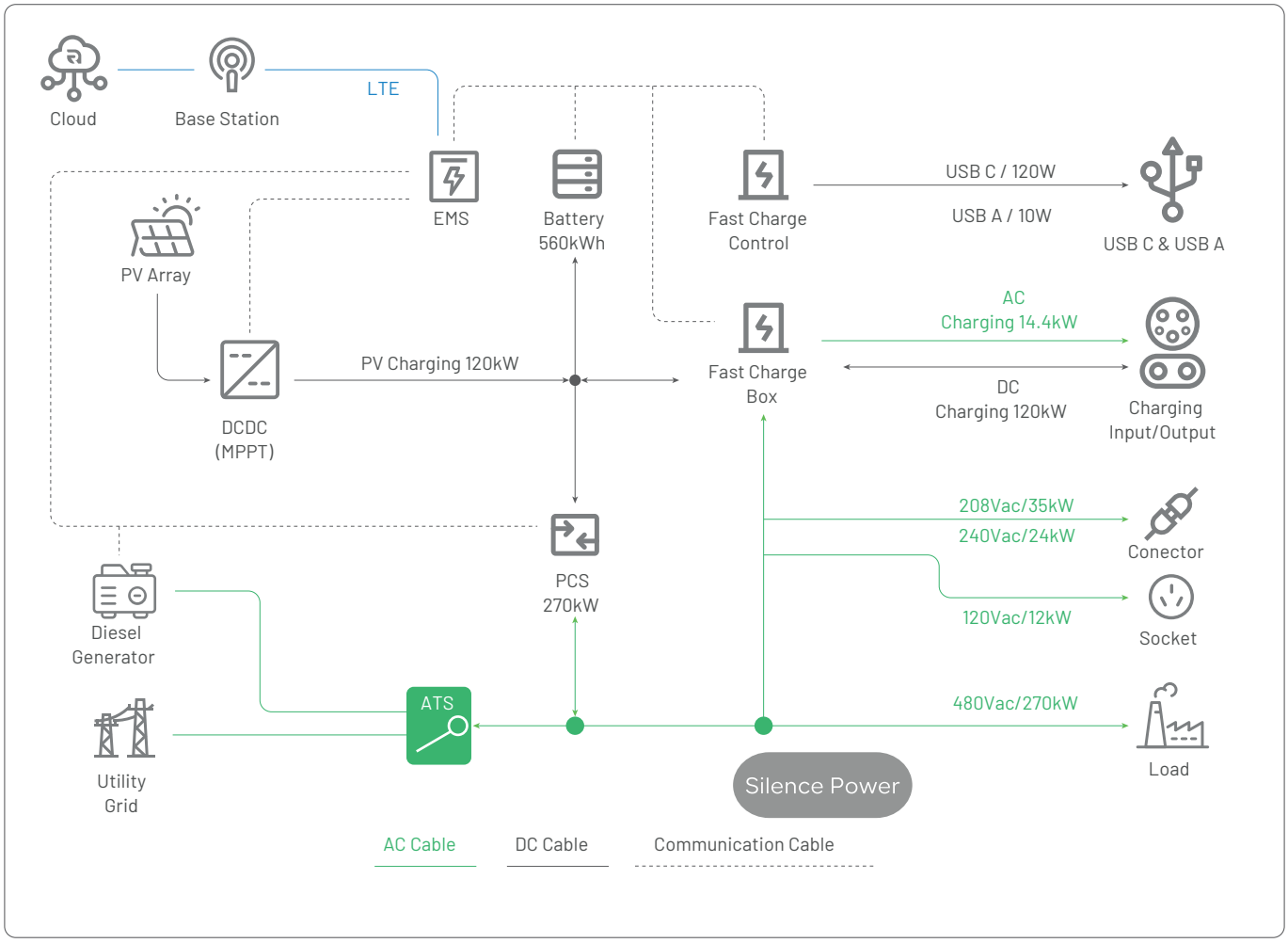
SYSTEM LAYOUT



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