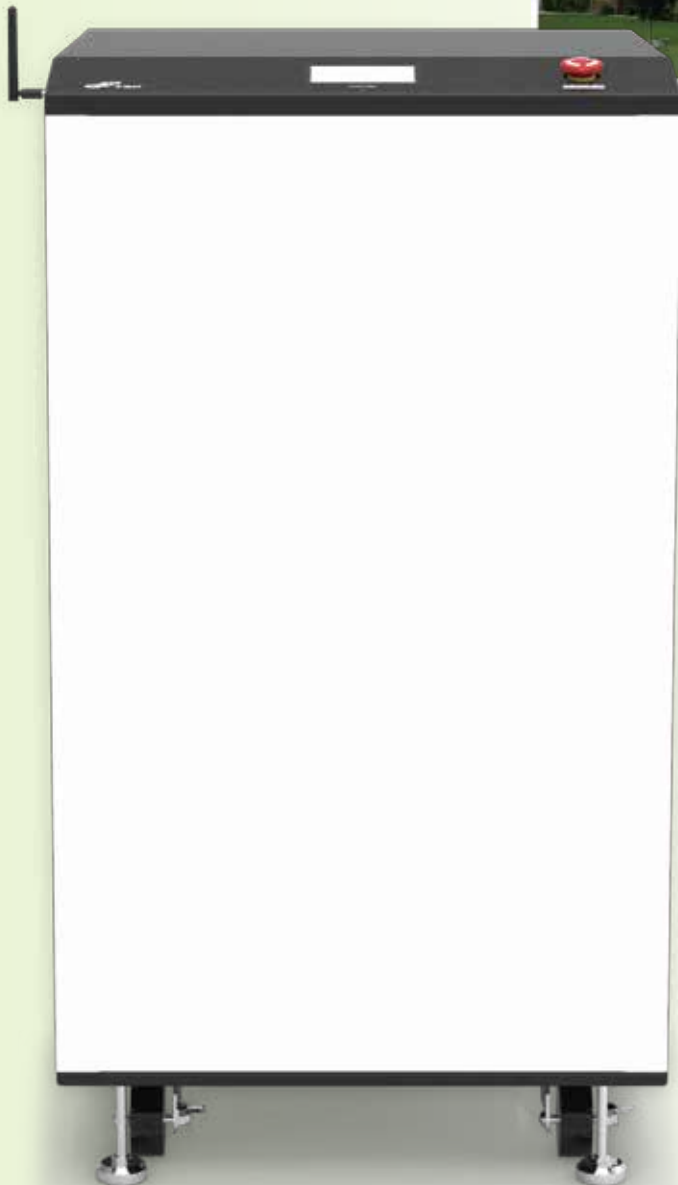


ION MATE

Energy Storage System | for Better Energy and Future



Easy Installation & Maintenance

Long Battery Life Cycles

High Power Conversion Efficiency

AC Output socket(s) varies with country



Rear Cable Connection Panel



Top-Side Control Panel

The ION MATE series are All-in-One Energy Storage Systems that integrate high-quality, long-life Lithium Iron-Phosphate Batteries, Battery Management Systems (BMS), AC Chargers, Photovoltaic (PV) Chargers, DC- AC inverters and System Control, with wireless monitoring, into a self-contained, self-managed unit to effectively utilize solar energies and AC grid power while providing back-up capability.

The ION MATE provides up to 13.6 or 15.9 kwh of long-lasting energies and two independent 2.3kVA AC power in a compact system chassis. Streamline industrial design, easy installation and high-performance power conversion units make the Ion Mate ideal choice for implementation of home/office power systems.

Features

- Easy installation (plug & play with pre-installed power outlets) & maintenance
- Long battery life cycles > 2,000
- Safety low voltage (48V) battery system
- Support both grid (up to 2.4kW) and PV (up to 3.6kW) inputs
- Two independent AC outputs (rated at 2.3kVA)
- High power conversion efficiency ($\geq 94\%$)
- Flexible configuration & easy expansion (19" rack system chassis)
- Programmable timer for charging and discharging (via LCD touch control)
- Programmable "backup energy levels" (via LCD touch control)
- "Hot-connect" (maintaining system operation while battery rack is being removed or added)
- Support stand-alone, non-grid-tie systems

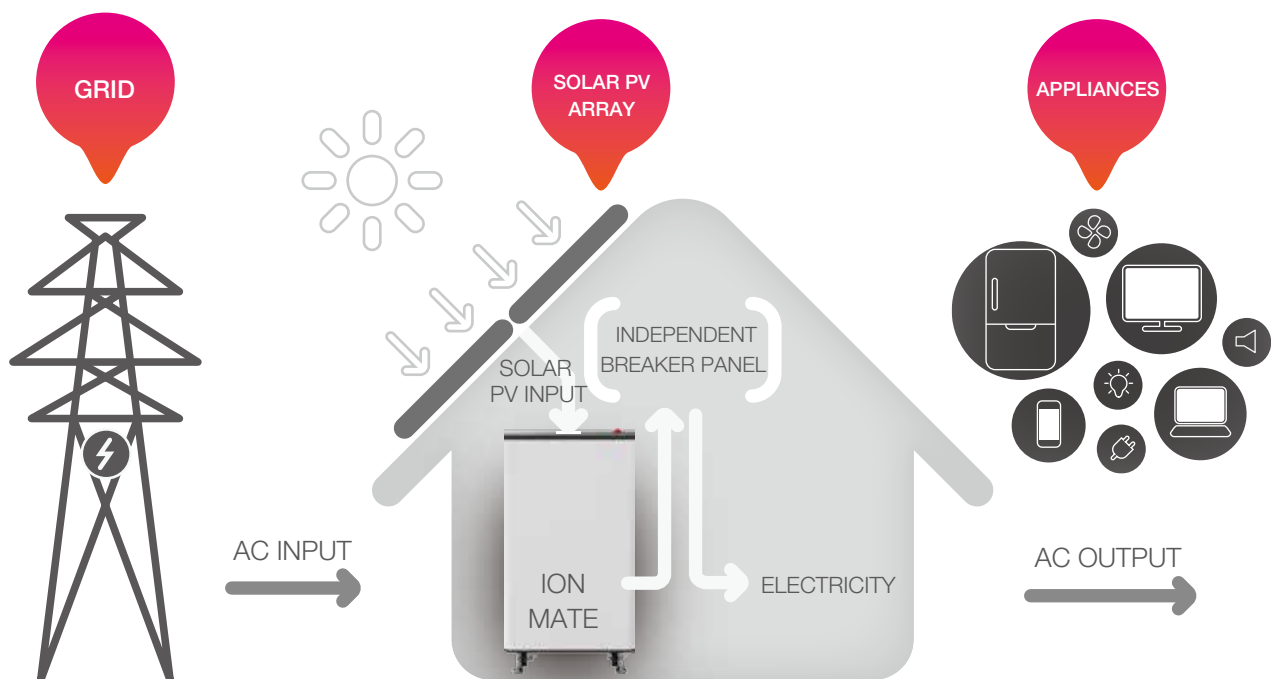
* For different system configurations, please consult factory.

Applications

- PV Self-consumption System
- Energy storage systems for off-grid application integrating PV and /or AC sources
- Back-up power systems
- Building power sources for public utilities



System Installation



Specifications

Product Name		ION MATE	
Model Name**		OMF323EAPA2	OMF323AAPA2
System Battery Capacity		10.2kWh / 10.6kWh	
System AC Output**		230V, 50Hz, 2.3 kVA x 2	120V, 60Hz, 2.3kVA x 2
Battery Pack	Cell Type	LiFePO ₄ (3U) / Li-Ion (2U)	
	Nominal Voltage	51.2VDC	
	Life Cycles	> 2,000	
	Protections	OVP, UVP, OCP, SCP, OTP, UTP	
AC Charger	Input Voltage	220-240VAC, 50-60Hz	100-120VAC, 50-60Hz
	PF	0.99	
	Charging Mode	CC-CV	
	Efficiency	94%(@full power, 230VAC)	93%(@full power, 120VAC)
	Protections	OTP, OVP, OCP, SCP	
	AC Charger Power	2.4kW	
PV Charger	Input Voltage	60-200VDC	
	Charging Mode	MPPT	
	Efficiency	97%(@full power, 112VDC)	
	Protections	OTP, OVP, OCP, SCP, Input UVP	
	PV Charger Power	2.4kW	
DC-AC Inverter	Input Voltage	40-60VDC	
	Rated Output Power	2.3kVA	
	Output Waveform	Pure Sine Wave	
	THD	≤ 4%	
	Efficiency	92%(@50% power, 51.2VDC)	
	Output Regulation	± 2%	
	Protections	OTP, OVP, OCP, SCP, Input UVP	
System	Operating Temperature	0-40 °C	
	User Interface	LCD Touch Panel	
	Dimensions (HxWxD, mm)	1,081x 586 x 650	
	Weight	160kg	
	Communications	WiFi	

** Output voltage and frequency can be set at 120Vac or 100Vac, 220Vac or 230Vac, 50Hz or 60Hz. Please consult factory for model names.

FSP TECHNOLOGY INC.

No.22, Jianguo East Road, Taoyuan City, Taiwan 330, R.O.C
TEL:886-3-357-8998 FAX:886-3-375-6966 / sales@fsp-group.com.tw

Tucheng Office

12F-5, No. 2, Sec. 4, Zhongyang Rd., Tucheng Dist., New Taipei City, Taiwan 236, R.O.C
TEL:886-2-2268-4998 / ericchao@fsp-group.com.tw



www.FSPLifeStyle.com

www.facebook.com/FSP.global