

03

EMERGY Series

portable energy storage
system



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EMERGY SERIES
Demonstration Video



EMERGY 3000

EMERGY 1000

Selling Points

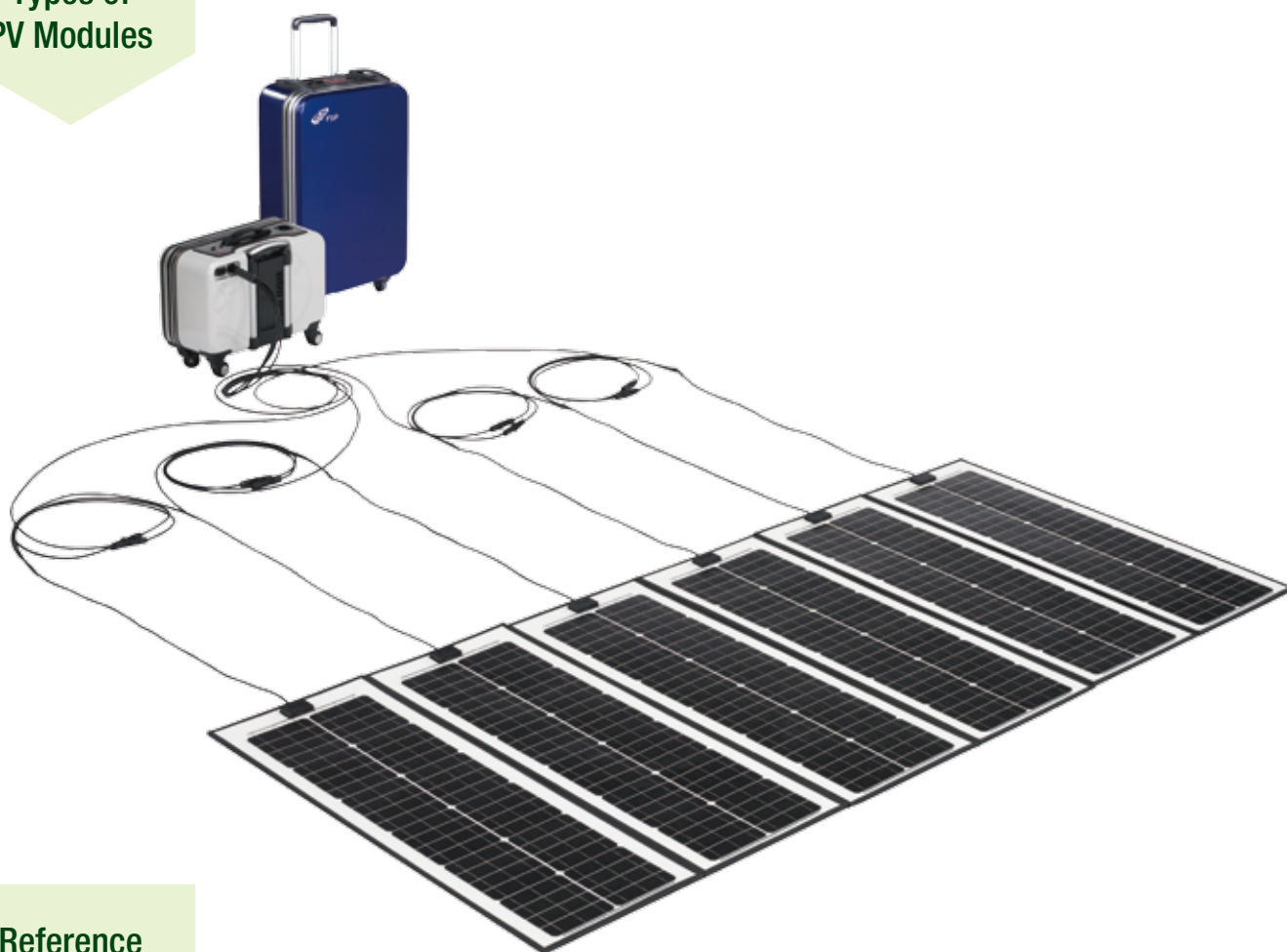
- All in One - charger, inverter, battery plug and play
- Portable - compact size design, easy to transport
- High Efficiency - no fan, quiet operating

Features

- Dual input - AC & PV
- High power charger (600W) and Inverter (1.5kW)
- High conversion efficiency (>90%)
- Quiet operating (no fan)
- Selectable on-line UPS or stand-by UPS mode
- In-house battery management techniques (patent pending) including active battery block balancing
- Master system control switch (for prolong storage) and output control switch
- LED capacity indicator
- Stable & reliable name-brand battery cells from fully automatic production linesA



Apply to Various Types of PV Modules



Reference Running Time for Select Loads

Electrical Equipment		Power Consumption	EMERGY 1000 Running Time	EMERGY 3000 Running Time
Lighting	Camping Lantern	5W	22.4 hr	66.9 hr
	LED Lighting	10W	19.6 hr	58.5 hr
	LED Searchlight	30W	13.1 hr	39.0 hr
	Fluorescent Lamp	36W	11.9 hr	35.5 hr
Home Appliance	Radio	10W	19.6 hr	58.5 hr
	Electric Fan	66W	8.2 hr	24.4 hr
	Refrigerator	130W	4.9 hr	14.6 hr
	42" LCD TV	200W	3.4 hr	10.2 hr
	Sound System	200W	3.4 hr	10.2 hr
	Electric Pot	800W	0.9 hr	2.8 hr
3C Device	Induction Cooker	1,200W	0.6 hr	1.9 hr
	Smart Phone	2W	24.5 times	73.1 times
	Tablet	20W	15.7 times	46.8 times
	Notebook Computer	40W	11.2 hr	33.4 hr
	Projector	200W	3.4 hr	10.2 hr
	Desktop PC & Monitor	310W	2.3 hr	6.9 hr
	Laser Printer	500W	1.5 hr	4.4 hr

EMERGY Series Specifications

Product Name		EMERGY 1000		EMERGY 3000	
Product Type		PP0915ADN ¹	PP0915EZN ¹	DP2615ADN ¹	DP2615EZN ¹
Battery		Lithium Ion			
Rated Energies		0.9kWh		2.6kWh	
Output Power		1.5kVA			
Inputs	AC	100-120V, 50-60Hz	220-240V, 50-60Hz	100-120V, 50-60Hz	220-240V, 50-60Hz
	PV	50-110V ²	65-110V ²	50-110V ²	65-110V ²
Outputs	AC	100 or 120V, 50Hz or 60Hz	220 or 230V, 50Hz or 60Hz	100 or 120V, 50Hz or 60Hz	220 or 230V, 50Hz or 60Hz
	DC	5V@2A (USB)			
Transfer Time		16 mS typical			
Operating Temperatures		0-40 °C ³			
Protections	Battery	Over-charge, Over-discharge, Over-temperature, Under-temperature, Over-current, Short-circuit			
	Charger/Inverter/DC	OVP, OCP, SCP, OTP			
UPS Operating Mode		Standby or On-Line ⁴ , Selectable		Stand by	
Dimensions, LxDxH		472 x 212 x 370 mm		390 x 220 x 680 mm	
Weight		17 kg		30 kg	
Safety		IEC 62133, UN38.3			

1. AC socket(s) varies with country.
2. Will charge battery as long as PV voltage is higher than battery voltage, but may be at slower rate.
3. Consult factory for operations beyond normal operating temperatures
4. Continuous power from 400VA to 550VA, transient power up to 1.5kVA depending on battery status.



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