









All-in-one Machine

# F-ES103

Mobile Energy Storage



## Features

-  Excellent performance because of an MCU intelligent control technology
-  A wide range of applicable loads because of pure sine wave AC output
-  Convenient and practical 5VDC USB output port and 12VDC output port;
-  Solar array and battery common-anodesystem input
-  Charge by mains supply for flexible configuration (optional function)
-  Overcharge protection and overdischarge protection for a longer battery life
-  LCD and LEDS for visualization of operation status of the equipment
-  Overall automatic protection and alarms including AC output over load protection, short circuit protection, etc

## Technical Data

Model	F-ES103-0.6	F-ES103-1.2	F-ES103-2.2	F-ES103-3.5	F-ES103-5
<b>Inverter</b>					
Battery Voltage	12.8V	25.6V			
In-built Battery Specification	50AH/12.8V	50AH/25.6V	100AH/25.6V	75AH/51.2V	100AH/51.2V
Rated Power	600W	1200W	2200W	3500W	5000W
Output Voltage	110/220Vac				
Output Frequency	50/60Hz				
Output Waveform	Pure Sine Wave				
Input Voltage Range	72-138/145-275Vac		85-138/170-275VAC		
Input Frequency	45-65Hz				
<b>MPPT Charge</b>					
Maximum Photovoltaic Voltage	1<=100V	<=100V		<=150V	
PV Input Range Voltage	18-100V	35-100V		60-150V	
Rated Charge Current	MPPT 30A				60A(MAX.)
Maximum Power	420Wp	840Wp	1600Wp	3000Wp	
Voltage Of Floating Charge	14.2V	28.4V	56.8V		
MPPT Efficiency	>97%			>99%	
<b>DC Output</b>					
Voltage Of High-Voltage Protection	16V	32V	64V		
Voltage Of High Voltage Recovery	14.5V	29V	58V		
Voltage Of Low Voltage Recovery	13V	26V	52V		
Voltage Of Low Voltage Protection	11.2V	22.4V	44.8V		
5Vdc USB Output Port	2 Units/MAX 2A				
12Vdc Output Port	2DC Ports/MAX 2A				
<b>Other</b>					
Heat Dissipation/Cooling	Temperature Control By Intelligent Exhaust Fan				
Ambient Temperature For Operation	-20±50°C				
Ambient Temperature For Storage	-25±55°C				
Operation/Storage Conditions	0-90% (No Condensation)				
External Dimensions: DxWxH (mm)	460*182*397	485*202*406	500*229*464	577*350*644	627*405*664
Packing Dimensions: DxWxH (mm)	527*267*470	552*277*477	570*310*535	665*450*825	715*505*845