

FEATURES Lithium Iron Battery: the Safest Lithium Technology.
Integrated Battery Management System (BMS).
SOC LED/ LCD Indicator (Optional).

PERFORMANCE Long Cycle Life > 1000 cycles.
High Density, High Discharge Current,
High Temperature Range. Low Weight, Free Maintenance.
Fast Charging.
Environment Friendly.



ALPHA 1000 (22.2V42Ah, 933Wh)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	22.2V
Rated Capacity	42Ah
Energy	933Wh
Resistance	≤30m Ω
Efficiency	99%
Cycle Life	>1000cycles
Self Discharge	2% per Month
Max. Modules in Series/Parallel	6S/16P

Mechanical Parameters

Dimension(L x W x H)	290x 201x 200 mm
	11.41x 7.87x 7.87"
Weight	8.5kg (18.7lbs)
Protecting Port Cover	Yes
Battery Housing	PC+ABS
Housing Protection	UL-94V-0, IP65
Cell Type-Chemistry	LiFePO4
SOC Display(Optional)	LED/LCD Indicator

Discharge Parameters

Power Watts (Rated Power, Surge Power)	1000W rated, 2000W surge
AC Outlet	2*AC Outputs
Pure Sine Wave	YES
Wireless Charger	Yes, 1*10W Wireless Charger
USB Output	3*USB-A QC 3.0 18W each 1*USB-C PD3.0 60W
DC Output	1*Cigarette lighter port 12V/10A

Charge Parameters

Charge Method	CC-CV
Full Recharging Time	
Wall Charger	6.2H
Solar Panel	7.8H (using 1x120W Solar Panel)
Car Port	15.5H
ECO Button	YES

Compliance Certificate

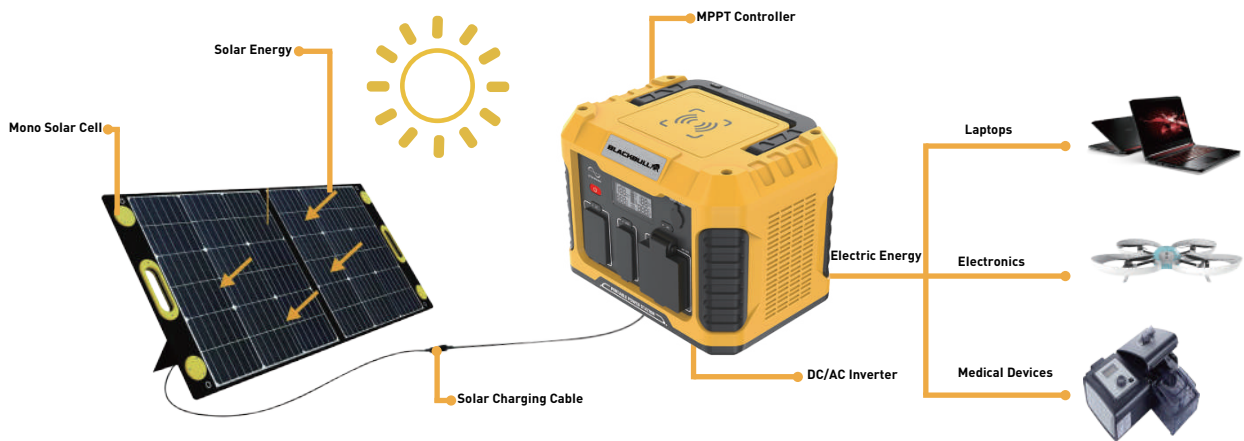
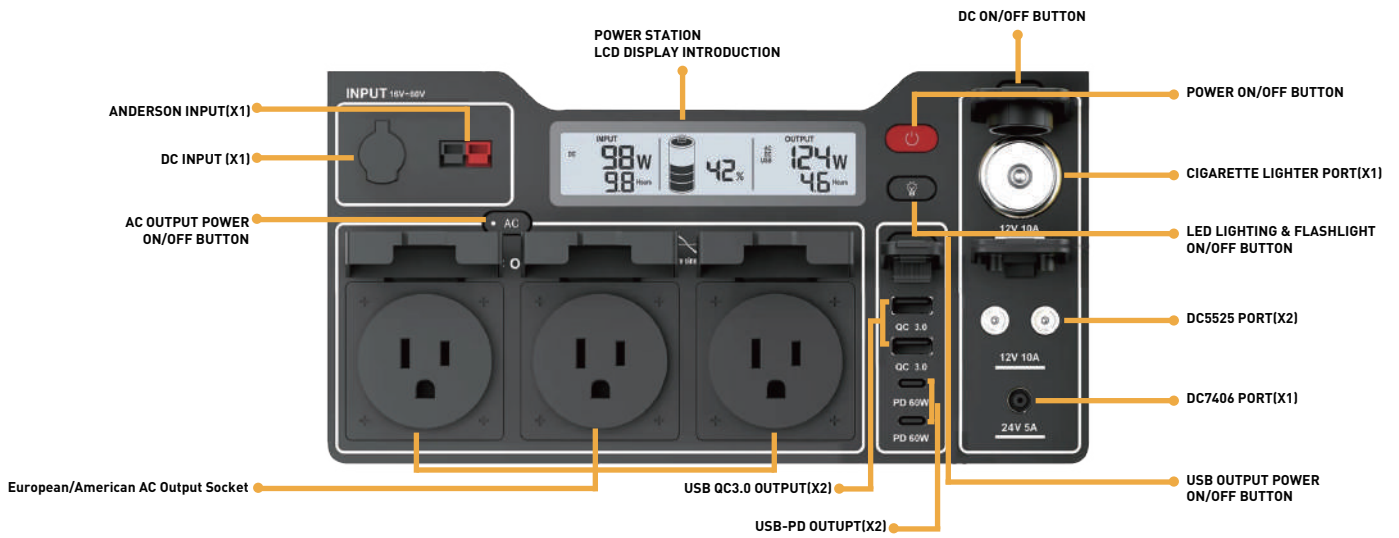
Certifications	UL1642(cell)
	CE
	IEC62133 & CB
	KC
	BIS
Shipping Classification	UN3480, Class 9, UN38.3

Temperature Parameters

Discharge Temperature	-30 to 60°C (-22 to 140°F)
Charge Temperature	0 to 45°C (32 to 113°F)
Storage Temperature	-40 to 60°C (-40 to 140°F)
BMS High Temperature Cut-off	80°C(176°F)



Performance Characteristics



Battery Recycle



Battery Applications

- + Data Center UPS
- + Telecom Backup Power
- + Military Power Supply
- + Solar Energy Storage System
- + Solar Street LED Lightings

NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.
See User's Manual for Proper Operation.