



AC



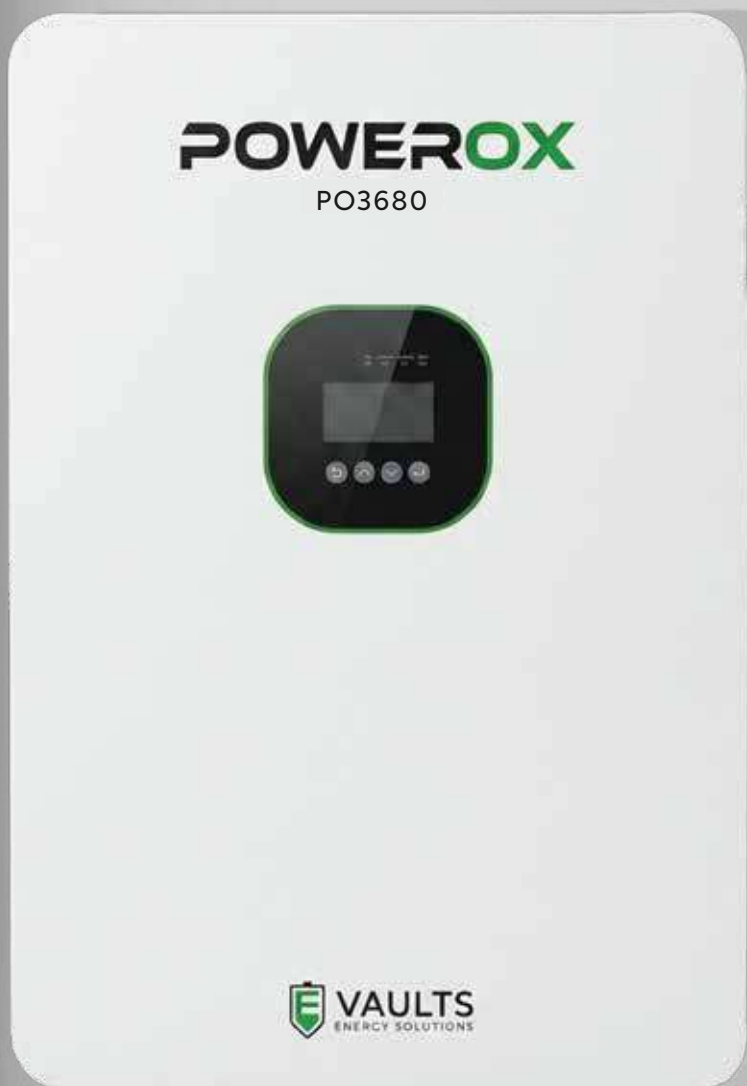
FAN



LED T.V



MULTIPLE
LIGHTS



ALL IN ONE HOME ENERGY SOLUTION

Hybrid Inverter with Built-in Life PO4 Battery Experience uninterrupted energy with advanced hybrid technology designed for modern homes and businesses.

- PO1640 4kwh Battery / 1.6 KVA Output
- PO3680 8kwh Battery / 3.6 KVA Output

www.vaultsenergy.com



TECHNICAL SPECIFICATIONS

Model	PO1640	PO3680
Battery		
Total Energy	4.02kwh	8.04kwh
Battery Cycle Life	25°C , 0.5: > 8000 cycles, @80%EOL	25°C , 0.5: > 8000 cycles, @80%EOL
Sleep Power Consumption	≤ 300μA	≤ 300μA
Charging Method	Constant-current constant-voltage charging	Constant-current constant-voltage charging
Working Temperature range.	0 ~ 50° Degree C	0 ~ 50° Degree C
working Attitude	1000 meters (rated). Operation above 4000 meters is strictly prohibited.	1000 meters (rated). Operation above 4000 meters is strictly prohibited.
working Humidity	20-95% Non condensing	20-95%
Short-Circuit Protection	YES	YES
Communication Method	RS485	RS485
Inverter		
Output Power	1.6KVA (Peak 3.5KVA)	3000VA (Peak 7KVA)
Output Wiring Mode	L+N+PE	L+N+PE
Output Voltage	230V	208V/220/230/240VAC ± 5%
Output Frequency	50/60Hz ± 0.1%	50/60Hz ± 0.1%
Conversation Efficiency	91%@24VDC	92.7%@24VDC
Switching time	10ms (UPS mode), 20ms (generator mode)	10ms (UPS mode), 20ms (generator mode)
waveform	Sine wave	Sine wave
Standby power consumption	≤ 25W	≤ 25W
Input Wiring Mode	L+N+PE	L+N+PE
Input Voltage	230VAC	230VAC
Input Frequency	50/60Hz ± 0.1%	50/60Hz ± 0.1%
Voltage Range	170~280Vac	170~280Vac
PV Maximum Open-Circuit Voltage	450V	450V
AC Charging Current	2-100A (default 30A)	2-100A (default 30A)
MPPT Tracking Range	40-400V	40-400V
MPPT Tracking Efficiency	99.55% max	99.55% max
MPPT Maximum Input Power	3000W	5000W
PV Minimum Activation Voltage	40V	40V
Maximum PV Charging Current	100A	100A
General		
Protection Rating	IP20	IP20
Altitude	≤ 1000m, derating above 2000m, maximum 4000m	≤ 1000m, derating above 2000m, maximum 4000m
Display Screen	LCD keypad display	LCD keypad display
Dimensions (L x W x H)	568 x 190 x 750 mm	568 x 190 x 750 mm

*1 Charge discharge rates are changed with ambient temperature, For more details please check with VES service team

*2 Cycle life is defined based on specific operation conditions, 1 Cycle per day, constant 25 degree C ambient, 0.5C, 70% SOH



ISO-45001



ISO-9001



ISO-14001



CE



IEC-62619



MH-63503



MH-62190