



Specifications for Hybrid Inverter EP760

Which is made in China

Version: V2.1 2023-12-20

Specifications

AC (Grid-tied)		
Item	Parameter	Note
Rated Output Power	7.6 kW	
Rated Output Apparent Power	7.6 kVA	
Wiring	L/N/PE	
Rated Voltage	230 VAC	
Voltage Range	185 V-285 VAC	
Rated Output Current	33 A	
Input Frequency	50 Hz	
Frequency Range	47.5 Hz - 51.5 Hz	
Max. Input Apparent Power	11.5 kVA	Bypass + Grid Charging
Max. Input Current	50 A	
Power Factor (PF)	0.9 leading - 0.9 lagging	
Current THD (Rated Power)	<3%	
On and Off-grid Switching Time	<10 ms	
Protection	Anti-islanding protection Output overcurrent protection Short-circuit protection	
AC (Off-grid)		
Item	Parameter	Note
Rated Output Power	7600 W	
Rated Output Voltage	230 V	
Rated Output Current	33 A	
Output Frequency	50 Hz	

Inversion Efficiency	94.5% Peak	
Output Voltage THD	<3%	Pure resistive load
Overload	100%-110% of rated power, 10min; 110%-150% of rated power, 10s.	
Protection	Output overcurrent protection Short-circuit protection Overtemperature protection	
PV Input		
Item	Parameter	Note
Max. Input Power	9000 W	
MPPT Channel	3	
Array in Series	1	
Max. Input Voltage	550 V	
MPPT Voltage Range / Rated	150 V-500 V / 360 V	
Max. Input Current per MPPT	12.5 A	
Max. Short-circuit Current per	15 A	
MPPT Efficiency	99.9%	
PV Inversion Efficiency	96.0% Peak	
Protection	Reverse polarity protection Insulation resistance detection	
Battery		
Item	Parameter	Note
Number of Battery in Parallel	2-4	
Max. Input / Output Power	2500 W / 5000 W (single unit)	Max. Combined Power:
Charging Strategy	BMS Orders	CC / CV
General		
Item	Parameter	Note

Relative Humidity	5%-95%	
Static Power	18 W	
Standby Power	75 W	
Working Temperature	-20 °C to 50 °C / -4 °F to 122 °F	
Noise	≤50dB (A)	
Cooling	Forced air cooling	
Protection Grade	IP65	
Working Altitude	≤2000 m / 6562 ft	
Dimensions (L x W x H)	636 mm x 325 mm x 370 mm / 25.0 in x 12.8 in x 14.6 in	
Net Weight	46 kg / 101 lbs	
Communication	USB / WiFi / Bluetooth	
Warranty	10 years	
Composition Information for battery		
Chemical Composition	CAS No.	Weight (%)
Lithium iron phosphate	15365-14-7	40.07
Graphite	7782-42-5	19.83
Aluminum	7429-90-5	5.41
Copper Copper	7440-50-8	9.33
Polyvinylidene difluoride	24937-79-9	1.20
Carboxymethyl Cellulose	9000-11-7	0.31
Polymerized Styrene Butadiene	9003-55-8	1.05
Polypropylene	9003-07-0	2.42
Lithium Hexafluorophosphate	21324-40-3	3.11
Ethylene Carbonate	96-49-1	5.27

Ethyl Methyl Carbonate	623-53-0	12.0
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Compliance	
Safety	IEC/EN62109-1, IEC/EN62109-2
Grid Connections	VDE-AR-N 4105:2018, VDE V 0124-100:2020-06, DIN V VDE V 0126-1-1:2013, RD 1699:2011, CEI 0-21:2022-03 + V1:2022-11, AS/NZS 4777.2: 2020+A1
Emissions (EMC/EMI)	EN/IEC 61000-6-1, EN/IEC 61000-6-3
IP65	IEC60529