

Smart choice for power

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Freedom 458 Inverter/Charger

With filtered modified sine wave output, Freedom inverter/chargers run virtually anything, from electrical equipment to appliances and electronics in your RV. Temperature controlled multistage charging ensures that your batteries are recharged quickly, and automatic shutdown and other safety features protect your expensive deep-cycle batteries from excessive depletion.

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Specifications Available

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Freedom 458 20-12 Specifications

Electrical Specifications - Inverter	
Output power (continuous)	2000 W
Surge power (AC amps)	50 A
Output frequency regulation	60 Hz, quartz regulated
Inverter voltage regulation	120 V +/-5% true RMS
Output wave form	Modified sine wave
Efficiency (full load)	85%
Peak efficiency	92%
No load current draw (idle mode)	0.12 A
AC output connections	Single (for dual, see circuit breaker "Part Numbers")
AC input connections	Single
AC transfer switch	30 A
Electrical Specifications - Charger	
Charge rate	100 A DC
AC input voltage range	90 – 130 VAC
Battery voltage (nominal)	12 VDC
Battery voltage range	10.0 – 15.5 VDC
Low battery cut-out	10.0 VDC
AC input (max. charge mode)	21 A AC
Bulk charge voltage	14.3 VDC (default value vari & temp.)
Float charge voltage	13.4 VDC (default value vari & temp.)
Equalize charge voltage	16.3 VDC
Charge control	3-stage
Battery type settings	Wet/Gel 1/Gel 2/AGM
Equalization	Yes
Temperature sensitive charging	Yes
General Specifications	
Optimal operating temp. range	32°F – 104°F (0°C – 40°C) *derated below 0°C and abc
Optional remotes	Freedom Basic Remote or Li
Dimensions (H x W x L)	7.9 x 11.5 x 13.2" (201 x 295 x 335 mm)
Weight	45 lb (20 kg)
Warranty	30 months
Part numbers	81-2010-12 (single input, si 81-2021-12 (single input, di circuit breakers) 81-2022-12 (single input, di circuit breakers) 81-2023-12 (single input, di circuit breakers) 84-2056-01 (Freedom Basic 84-2019-02 (Link 1000) 84-2000-06 (Link 2000)
Regulatory Approvals	
UL and cUL listed to 458 standard	

Note: Specifications subject to change without notice.