



On-Board Battery Charger

Simplified Battery Charging



With on-board battery chargers standard on battery-powered machines, NSS provides a more consistent, more convenient, and more reliable solution to battery chargers.

- On-board battery chargers offer charging anywhere that power is available. By keeping the charger on the machine, damage resulting from pulling traditional chargers off of the storage shelf is eliminated. Integral cord wraps and detachable power cords make crushed plugs a thing of the past.
- For our larger 24V and 36V battery packs, the NSS Dual Pro on-board battery charger is designed to be the most versatile and easy-to-use battery charger we have ever offered. The NSS Dual Pro charger combines low-frequency charging with a microprocessor controller to deliver a broad range of performance without any operator intervention.
 - Direct from our factory, this charger can be used on any brand of flooded lead-acid or AGM battery between 200 AH and 350 AH without any modifications or algorithm changes. Simply install the new batteries and the proprietary logic built into the charger will handle the rest.
 - For Gel batteries between 200 AH and 350 AH, remove a top cover panel and move a single jumper. A light on the front of the charger will illuminate, indicating the charger is now ready to accept gel batteries. No other modifications or algorithm changes are needed.
 - Designed for world-wide use, the charger automatically detects voltage and frequency of the input current. Rated for 100V, 115V and 230V at 50 Hz and 60 Hz.
- For our smaller battery packs, NSS offers an SPE high-frequency charger. This charger is microprocessor controlled and is well suited for 24 V battery packs below 200 AH.

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Dual Pro Specifications

DC Output

Current-Maximum	25 Amps
24V - 36V	

AC Input

Voltage-Maximum 24V	9 Amps
Voltage-Maximum 36V	12 Amps
Frequency	50-60
Current-Maximum	12 Amps @ 100 VAC
Current-Nominal	9.5 Amps @ 155 VAC 5 Amps @ 230 VAC

Operation

Battery Type Indicator	Flooded/AGM or Gel
30% Charge Indicator	LED
60% Charge Indicator	LED
90% Charge Indicator	LED
100% Charge Indicator	LED
Fault Indicator	Flash codes (see operation manual)

Construction

Housing	Steel
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Connection

DC	12 AWG pos output with 3/8 ring terminal, 12 AWG neg output with 3/8 ring terminal, 18 AWG pos output interlock with 1/4 Faston terminal
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Dimensions

Length	9 in. (22.8 cm)
Height	8.5 in. (21.6 cm)
Width	5.5 in. (14 cm)
Weight	26 lbs. (11.8 kg)

Warranty	Three years on new machine
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SPE Specifications

DC Output

Current-Maximum	12 Amps
12V - 24V	

AC Input

Voltage-Nominal	115 / 230
Frequency	50-60
Current-Maximum	4.5 Amps @ 115 VAC 2.25 Amps @ 230 VAC

Operation

AC Power Indicator	Red LED
80% Charge Indicator	Yellow LED
100% Charge Indicator	Green LED
Display Indicator	Selection button toggles view between charging current, voltage, charging time, amp-hours, and energy used

Construction

Housing	Plastic
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Connection

DC	7 ft. (2 m) 12 AWG cable
AC	IEC 320/C14

Dimensions

Length	8 in. (20 cm)
Height	3.25 in. (8.25 cm)
Width	4.75 in. (12 cm)
Weight	4.25 lbs. (2 kg)

Warranty	Two years on new machine
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Specifications subject to change without notice.

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