

CH7000 Solar Powered Smart, SMBus Battery Charger

Inspired Energy's Range Of Smart Chargers Expands to Include Solar Power + Vehicular Charging.

Inspired Energy's portfolio of smart chargers just got bigger!

Inspired Energy designs & manufactures single bay, two-bay, four-bay & six-bay smart chargers for use with their range of more than 80 standard Li Ion & NiMH smart, SMBus battery packs. Now, in response to customer demand for an off-the-grid battery charging solution, Inspired Energy has introduced a desktop charger which allows truly mobile operation by accepting input from 12V solar panels, vehicle cigarette-lighter sockets & regular 110-240V AC supplies from anywhere in the world.

Designed to operate with SMBus / Smart Battery System (SBS) compliant NiMH and Li Ion smart batteries, the **CH7000** is chemistry and voltage independent which means it is capable of charging every battery in the Inspired Energy® regular product range - from their smallest 21Wh to their largest 95Wh smart packs.

Similar SMBus chargers from other manufacturers lack the ability to operate from solar panels & require different models to be purchased for each of the different battery sizes and shapes.

For the design engineer this adds yet another standard option to the large range of smart, rechargeable battery packs & chargers which significantly reduces design cycles & cost.

The **CH7000** uses a unique power-sensing circuit to adjust its battery-charge output to suit the constantly changing power available from a solar panel.

In variable sunlight or cloudy weather the CH7000 will continue to accumulate charge in the battery as the power available from the solar panel fluctuates. If the power from the solar panel drops below 1 watt, the CH7000 will cease charging,

recommencing when the sun comes out & power levels are restored.



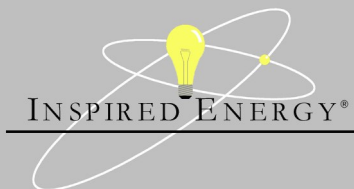
The CH7000 shown here operating from a 12V, 28W, roll-up solar panel (Not included)

The US version; **CH7000A** comes with a cable to connect to a car Cigarette-lighter socket, a North American AC cable, and a 50-60 Hz, 110-240V AC to 24V DC power supply. Versions are also available with AC cables for the UK and European markets (**CH7000U** and **CH7000E**).

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www.inspiredenergy.com

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The CH7000 is designed for use with 12V nominal solar panels with a minimum 25Watt rating. The following solar panels are recommended:

<u>Company</u>	<u>Model</u>	<u>Form</u>	<u>Rated Power</u>
PowerFilm	R-28	Roll-up	28W
PowerFilm	F15-1800	Fold-up	30W
PowerFilm	F15-3600	Fold-up	60W

"The introduction of the CH7000 solar-powered charger is our response to growing customer demand for this type of device." Said Lex Jacobs - Managing Director. "We have a long-established history of building SMBus and SBS-compliant batteries and chargers. It was a natural expansion of our core competencies for us to also provide a charging system that can operate from a variety of power sources."

Upon insertion of the battery, the charger and battery communicate via the SMBus. The battery identifies itself and requests an appropriate charge. Charging then begins automatically with no further user input necessary.

The CH7000 is capable of charging and calibrating more than 80 different Inspired Energy® standard, smart batteries and custom hybrid variants. For a full list of compatible battery packs, please visit www.inspiredenergy.com.



The CH7000 shown here with some of the wide range of NiMH & Li Ion Inspired Energy standard, SMBus batteries that it recharges

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