

# Universal iPack Charger, 100–240V AC Input

## Introduction

The NRG Symphonie iPack charger is used to charge the lead acid battery in Symphonie iPacks before field installation. The charger is a wall mount power supply that includes 5 different plugs (US, Europe, UK, Australia, and China) compatible with most wall socket types found around the world. The charger's intelligent charge controller allows the iPack to remain plugged in indefinitely without damaging the iPack or the charger.

All lead acid batteries will lose their capacity over time. If the iPack battery remains at low capacity for an extended period of time, the battery will no longer accept or maintain a charge. Therefore, the battery must be recharged if an iPack is kept in storage or is unused for any period of time.

It is very important to recharge an iPack before initial deployment in the field, after programming or communications testing, or any other time the iPack battery needs to be charged. If the iPack battery is not fully charged before being installed in the field, the battery may discharge faster than the photovoltaic panel can re-charge it. This situation is more likely to occur when using sensors with higher power consumption such as barometric pressure and relative humidity sensors.

## Using the iPack charger

The iPack charger plugs into a wall outlet or extension cord, and the output wires are connected to the iPack's terminal strip. One output wire is ground, and the other is +15 V. The positive wire is marked with red heat-shrink tape, and the other wire is ground. The iPack batteries will be fully charged in about 6 hours.