**Intelligent Charging Series**

Charge rate: 500mA - 5000mA  
Charge range: 2V to 35V  
Input connector: 2.5mm, center positive  
Weight: 6oz (171g)  
Material: ABS GSM  
Color: Black  
Dimensions: 3.63” x 2.27” x 1.85”  

(92mm x 58mm x 47mm)

Target Batteries: Lithium Ion, Lithium Polymer, Nickel Metal Hydride, Nickel Cadmium, Lead Acid

Standard ICS Kit includes:  
- Charger  
- Universal switching power supply  
- Line cord (specific country)  
- Instruction sheet

Optional Components:  
- Vehicle power adaptor  
- 2-bay housing

Carton Dimensions:  
12.56” x 7.68” x 2.46”

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**Charger Kit: Product Part Numbering**

<table>
<thead>
<tr>
<th>XXX</th>
<th>CCBB</th>
<th>VVVVV</th>
<th>PPPPPP</th>
<th>LLLL</th>
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<tbody>
<tr>
<td>ICS</td>
<td>1000</td>
<td>04200</td>
<td>PS2524</td>
<td>LCUL - North America</td>
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<td></td>
<td>1500</td>
<td>16800</td>
<td>PS2036</td>
<td>LCAS - Australia</td>
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<td>25200</td>
<td>PS3636</td>
<td>LCEC - Europe</td>
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<td>33600</td>
<td>PS0524</td>
<td>LCUK - United Kingdom</td>
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<td>4000</td>
<td>0DTDV</td>
<td>VA2524</td>
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</table>

Key: XXX - Charger platform  
CC - Current capability (Amps x10)  
BB - Battery bays  
VVVV - Charger voltage setting, mV  
PPPPP - Power supply  
LLLL - UL listed line cord

Agency Approvals:

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10/28/11
Description
The ICS charger is a stand alone battery charger with the versatility to accommodate a broad array of cell chemistries and configurations. Typical applications include lithium ion (1 to 8 cells), nickel metal hydride (2 to 20 cells), nickel cadmium (2 to 20 cells), and lead acid (2 to 12 cells). The maximum charge current is easily adjustable from 500mA to 5000mA. The unit may be ordered without its plastic housing and output cable for use as a component.

The ICS charger uses an external power supply. Depending on the application, this may be either a universal input switching supply or an inexpensive iron-core wall adaptor. Since the current sensing occurs in the negative battery lead, there must not be a common ground connection established between the battery and the external power supply.

Absolute Maximum Ratings
Input voltage 40DC

General
Adjustable charge current 500mA to 5000mA
Current tolerance ±10%
Voltage limit 4V to 35V
Voltage limit tolerance ±0.2%
Operating temperature 0°C to 50°C

Physical and Environmental
Dimensions 3.63" x 2.27" x 1.85" (92mm x 58mm x 47mm)
Weight 6oz (171g)
Material Black ABS GSM
Input connector 2.5mm, center positive
Storage temperature -20°C to 80°C
Humidity 15% to 95% (non-condensing)

Standard Output Cable
Length 8", stripped and tinned
Red wire Positive battery lead
Black wire Negative battery lead
Green wire Thermistor lead
(used only with NiMH and NiCd)

LED Indications
Off
Power-up Red-yellow-green-off
Green flashing Fast charging
Green solid Fully charged
Yellow solid Out of temperature range
Red/green flashing Shorted terminals
Red flashing Error

Absolute Maximum Ratings
Input voltage

General
Adjustable charge current
Current tolerance
Voltage limit
Voltage limit tolerance
Operating temperature

Physical and Environmental
Dimensions
Weight
Material
Input connector
Storage temperature
Humidity

Standard Output Cable
Length
Red wire
Black wire
Green wire

LED Indications
Off
Power-up
Green flashing
Green solid
Yellow solid
Red/green flashing
Red flashing

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