



## **ANSMANN ACS 110 – Switch Mode Universal Battery Pack Charger**

The **ANSMANN ACS 110** is probably the most sophisticated battery-pack charger available today. Using a custom negative delta peak microcontroller and switch-mode technology it allows the user maximum flexibility to charge the wide-range of battery packs on the market with only one charger.

### **Universal Mains Plug Set**

With ANSMANN's unique changeable mains plug system and wide input voltage (100 to 240V) this lightweight primary switch mode charger can be used virtually anywhere in the world. The unit comes with a mains plug set that includes UK, European, USA and Australian mains plug options.

### **Interchangeable Output Plug Set**

To ensure that the user has maximum choice for connection to the battery-pack the ACS 110 comes complete with 8 choices of changeable output plug with selection for centre positive or negative.

### **Automatic Battery-Pack Size Detection**

The microcontroller will detect the battery-pack size and automatically adjust the output to match. This means that the charger will auto-select between 1 cell (1.2V) to 10 cells (12V) and will charge both Nickel Cadmium (NiCd) and Nickel Metal Hydride (NiMH) for capacities from 500 to 6700 mAh.

### **Negative Delta Peak Detection**

The unit will start in a test mode to determine the battery pack type and identify to the user immediately should the battery pack have faulty cells or is reverse connected.

Once satisfied everything is okay, the charger will start the FAST charge until such time the negative delta peak is detected within the pack, that identifies that the pack is fully charged, whereupon it will automatically switch to TRICKLE charge to keep it topped-up until ready for use. A built-in safety timer will ensure switching to Trickle charge should the cells fail to peak within a predetermined time (10 hours) due to an internal failure during charging.

### **Pre-discharge Selection**

The user may also select a pre-discharge option to ensure any 'memory effect' that is common in NiCd cells can be reduced prior to charging. The charger will automatically start re-charging once the battery-pack is fully discharged.

### **Approvals**

The ACS110 is approved for use in USA/Canada by CSA, in Europe with CE by GS and Australia with N-Tick.

### **Warranty**

As with all ANSMANN products the charger is guaranteed for two years.



# Data Sheet

**Technical Data:**

Input: 100 – 240V 50/60Hz

Charge Current: 800mA (Fast)  
80mA (Trickle)

Discharge Current : 150 – 250mA

Safety Timer : 10 hours

Dimensions : 62mmW x 118mmH x 48mmD (without mains plug)

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