



ACC-700N Accumulator Charger



ACC-701N

Use:

The ACC-700N line of chargers is used for charging NiMH (NiCd) accumulators for Signal 5. The accumulators are charged using a constant current and a drop in voltage to estimate the end of the charge cycle. A time limit of the charge cycle is used to protect against overcharging.

According to the model of charging unit, 1 to 10 accumulators can be charged simultaneously. The singular ACC-700N and ACC701N chargers are powered by a 9VDC adapter. The five and ten multiple capacity ACC-705N and ACC-710N chargers are powered from a 230VAC source. Accumulators for Signal 5 are electrically and mechanically connected to charging circuits by direct insertion into the connector. The chargers can be used as table devices. Sheet-metal plated chargers can be mounted on the wall or rack.

Description:

Chargers of the ACC-700N line consist of automatic charging circuits, accumulator connectors for Signal 5, LED indication and outer case. The five and ten multiple capacity ACC-705N and ACC-710N chargers can also be powered from a 230VAC source and include a fan. The ACC-700N charger comes in a plastic case, the ACC-701N, ACC-705N and ACC-710N are sheet-metal plated and surface treated with komaxit.

Combined technical parameters:

Number and type of power cells	2x Nimh (NiCd) 700-2500mAh
Battery current	ca 570mA
Refresh current	ca 10mA
Maintenance current	ca 8mA
Time limit for charging	ca 5 hrs (283 min.)
Typical charging period Signal5	ca 3.5 hrs (1700mAh)
Estimating the end of charging	dU/dt method
Surrounding temperature	+5 to 40°C
Relative humidity	10%-80% without cond.
Cover	IP30

ACC-700N technical parameters:

Nominal current	600mA
Power adapter	230VAC / 9VDC 1A
Number of power circuits	1
Dimensions	110 x 153 x 80 mm
Weight	0.5kg

ACC-701N technical parameters::

Nominal current	600mA
Power adapter	230VAC / 9VDC 1A
Number of power circuits	1
Dimensions	195 x 155 x 105 mm
Weight	1.4kg

ACC-705N technical parameters::

Power rating	230V/50Hz
Maximum power input	45W
Number of power circuits	5
Dimensions	195 x 155 x 585 mm
Weight	6kg

ACC-710N technical parameters::

Power rating	230V/50Hz
Maximum power input	90W
Number of power circuits	10
Dimensions	195 x 155 x 1159 mm
Weight	12kg

The operation of the charging circuits is indicated by red LED lights. If an accumulator is not plugged in but the red LED is still lit, this means the charging circuit is ready and an accumulator can be plugged in. After plugging in, the charging circuit measures no power from the accumulator. If the power ranges from 2V to 4V, charging commences and the red LED light starts to blink. Charging takes place with a steady current of 570mA. Voltage to the empty accumulator continues to slowly increase during charging and starts to drop off at the end of the charging cycle. This drop is estimated by the charging circuit, which interrupts charging while the red LED light remains lit. If the charging cycle has not concluded after 5 hours (283 minutes), charging is automatically cut off.

The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.