

Cadex SM1™

Charger

An intelligent charger that complies to SMBus batteries



SM1

The Cadex **SM1**™ charger fills the urgent need of extra charging capability for the mobile computer user. With the **SM1**, you never run short of battery power again. Simply charge as many batteries as you may require.

The **SM1** conforms to the System Management Bus (SMBus) and accommodates the widely used

202 form factor, as well as other popular formats. You don't need to know the particulars of a battery, "if it fits, you can charge it".

Charging is fast and accurate. A faulty battery is identified with a fail light and the charge is halted. Temperature protection assures fail safe operation even in adverse temperature conditions.

Specifications of SM1

DESCRIPTION

Single-bay fast-charger, supports SMBus Level 3

BATTERIES SUPPORTED

210, 202, 201, 36, 35, 30, 17, 15 or equivalent

Smart Battery Li-ion (14.4V max. nominal);
NiCd/NiMH (12V max.)

Dumb Battery NiCd/NiMH (7.2V- 12V)

CHARGING

Automatic battery recognition

Charge rate *Smart Battery*: Variable, up to 2.5A;
Dumb Battery: 1.8A fixed

Charge termination *Smart Battery*: Controlled by battery
or time-out
Dumb Battery: dT/dt; 1°C min. rise or
negative slope

Charge time 2.5h per pack typical

SIGNAL INDICATORS

Yellow (RUN)	Flashing	Initializing battery (max. 8 sec, smart battery only)
	ON	Charging
Green (READY)	Flashing	Topping charge; 80% charged (dumb battery only)
	ON	Charge completed
Red (FAIL)	Flashing	Charger fault or over- temperature
	ON	Battery fault - replace battery if fault re-occurs

ELECTRICAL

Power requirements 90-250 VAC, 47-63 Hz, 45 watts max.

Operating temp. Recommended +5 to +30°C; 40°C
maximum

Temp. Protection Over-temperature control on battery
and circuit; halts service if hot

Power Supply External with detachable North
American AC cord; other AC cords
available on request

PHYSICAL

SM1 3.5" w x 6.0" d x 2.0" h (89 mm w x 152
mm d x 51 mm h)

APPROVALS

Products tested and approved by ITS
to comply with CSA/UL/CE standards.

