

SCR1000

Programmable Charger Control



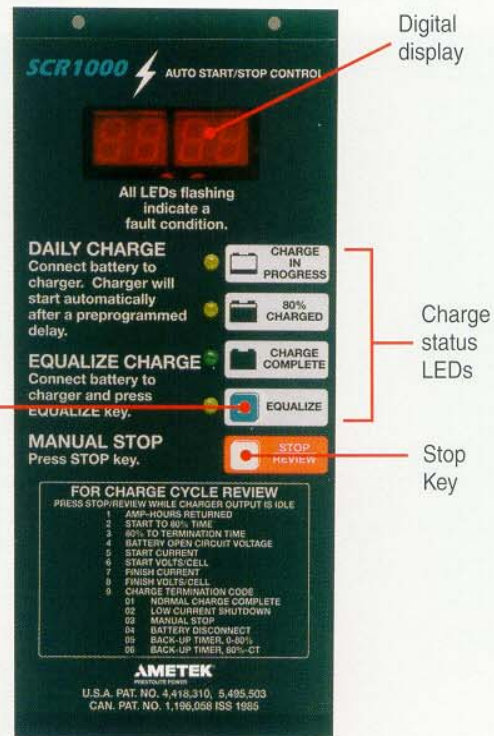
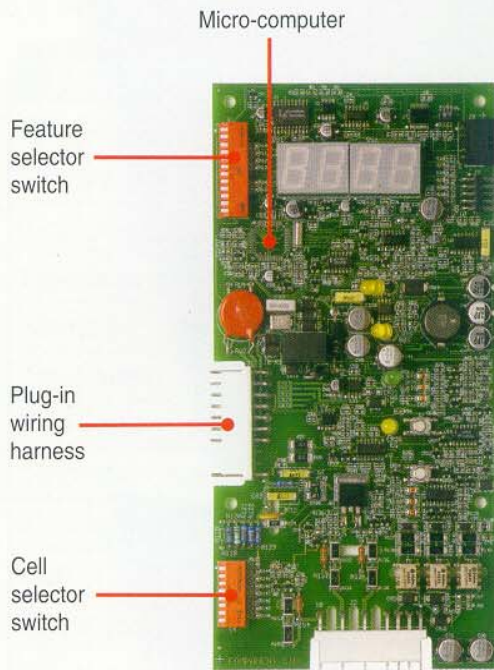
Full-featured control provides useful options and maximum protection.

- ⚡ Interchangeable with the SCR2000 control
- ⚡ 12 programmable functions
- ⚡ Reviews each charge cycle and displays 9 items of cycle information for the last charge cycle
- ⚡ User-selectable charge termination
- ⚡ Programmable curve, delayed start, cool down and refresh options
- ⚡ Programmable automatic or delayed start
- ⚡ Battery/charger voltage mismatch protection
- ⚡ Quality built for years of trouble-free service
- ⚡ Data-Mate compatible
- ⚡ Store up to 17 items of cycle information for the last 30 charge cycles

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SCR1000 – Charger Control Flexibility at an Exceptional



⚡ Charge cycle review

Displays 9 items of cycle information for the last charge cycle including:

1. Amp-hours returned
2. Total charge time
3. 80% to termination time
4. Battery open circuit voltage
5. Start current
6. Start volts/cell
7. Finish current
8. Finish volts/cell
9. Charge termination code

⚡ Automatic or manual equalize operation

An equalize charge of three hours beyond a normal charge termination can be selected manually or automatically. Automatic equalization can be programmed by the number of charge cycles, from 0-30. When the automatic equalize function is selected, the manual pushbutton is disabled to prevent unnecessary equalize charges.

⚡ Delayed start

Program the SCR1000 to delay the start of charge for up to 24 hours. With the selection of delayed start and upon connection of a battery "dS" or the remaining delay time appears on the digital display and toggles until the delay time reaches zero at which time charging will start. Use delayed start for battery cool-down before recharging to increase battery efficiency and extend battery life. Program different delay times to stagger-start charging of batteries to ease high-peak energy demands.

⚡ Refresh charge

Featuring an adjustable 8-99 hour refresh charge timer, the SCR1000 can be used to provide a refresh charge to stored batteries to replace normal losses associated with storage. Similarly, in situations where it is anticipated that the battery and charger will be left connected for a period of time after charging – for instance, in the event of a long weekend or a week-long company shutdown – the SCR1000 can be programmed to automatically provide a refresh charge to ensure a fully charged battery when you need it.

⚡ Cool down option

The SCR1000 can be programmed to delay illumination of the "Charge Complete" LED until after a specified cool down time has elapsed. Adjustable from 0-8 hours, this efficient feature helps to prevent battery overheating and extend battery life.

⚡ Extended run time

In severe battery applications such as cold storage, the SCR1000 can be programmed to extend charge time for up to one additional hour past normal termination.

⚡ Back-up timer protection

The SCR1000 is equipped with a backup timer for additional battery protection. The backup timer terminates the charge if the battery is not 80% charged in 10 hours. The timer protects the battery from excessive overcharging – and possible permanent damage. These times will differ for other curve selections.

⚡ *New battery recognition after AC fail*

After an AC fail during the battery charging process, charging will resume provided there has not been a battery change. If a change occurred, the SCR1000 will recognize the presence of a "new" battery and begin a new charge operation.

⚡ *Quality built for years of trouble-free service with energy-saving options*

Quality is the driving force behind our products. Engineered to be the best, our chargers and controls are designed to meet the many challenges associated with charging batteries. Unmatched in reliability and value, our products are subject to intensive quality control and test procedures to ensure many years of trouble-free service. Reduce charging costs with programming options that can result in savings of time and energy.

⚡ *Automatic start/stop*

When the battery is connected to the charger, the SCR1000 automatically begins charging after an initial 5 second delay to allow for safe connection. The SCR1000 also automatically terminates the charge cycle when complete – and the green CHARGE COMPLETE LED is illuminated for easy identification.

⚡ *DV/DT charge termination*

The SCR1000 utilizes our patented charge termination technique, DV/DT, or rate of change of battery voltage with respect to time. This termination method ensures a precise charge every time, never under or over charging, even on lightly discharged batteries. This technique used in conjunction with the electronically controlled IEI curve of the SCR chargers, ensures that the rate of change for both battery voltage and current always provides an efficient and accurate termination of charge.

Note: Should the user prefer a voltage/time charge termination, the SCR1000 can be set for this popular termination method through available programming options.

⚡ *One control for 6, 9, 12, 18 or 24 cell batteries with 100, 200, or 400 ampere full-scale digital ammeter*

The SCR1000 can be programmed to charge 6, 9, 12, 18 or 24 cell batteries with 100, 200, or 400 ampere full-scale digital ammeter. The SCR1000 is pre-programmed

at the factory when it is purchased with a charger. If the control is purchased separately or needs to be changed to match a battery, it is programmed by simply selecting the appropriate cell's dip switch and programming the appropriate ammeter scale on the control printed circuit board. This flexibility reduces spare parts inventory expense.

PROGRAMMING

S1-1	-	DVDT/VT	_____
S1-2	-	AUTO EQ	_____
S1-3	-	DEL ST	_____
S1-4	-	REF DEL	_____
S1-5	-	FORMING CYCLES	_____
S1-6	-	COOLDOWN	_____
S1-7	-	EXTRA RUN TIME	_____
S1-8	-	CURVE TYPE	_____
S1-9	-	I START	_____
S1-10	-	VGAS	_____
S1-11	-	IFIN	_____
S1-12	-	VLID	_____

SELECTION

S2-1	-	6 CELL	_____
S2-2	-	9 CELL	_____
S2-3	-	12 CELL	_____
S2-4	-	18 CELL	_____
S2-5	-	24 CELL	_____
S2-6	-	OPTION	_____
S2-7	-	100A SHUNT	_____
S2-8	-	400A SHUNT	_____





SCR1000

Data-Mate/Print Kit Items	Model			
	SCR2000	SCR1000	AC2000-EXP	UC2000
Amp hours returned	⚡	⚡	⚡	⚡
80% charge time	⚡	⚡	⚡	⚡
Total charge time	⚡	⚡	⚡	⚡
Start amps	⚡	⚡	⚡	⚡
Start volts	⚡	⚡	⚡	⚡
Finish amps	⚡	⚡	⚡	⚡
Finish volts	⚡	⚡	⚡	⚡
Termination code	⚡	⚡	⚡	⚡
Equalize time	⚡	⚡	⚡	⚡
Start of charge time	⚡		⚡	⚡
End of charge time	⚡		⚡	⚡
TID #	⚡	⚡	⚡	⚡
BID #	⚡	⚡	⚡	⚡
BID start temperature	⚡	⚡	⚡	⚡
BID end temperature	⚡	⚡	⚡	⚡
BID maximum temperature	⚡***	⚡	⚡	
Charger ID #			⚡	
Cycle amp hours	⚡	⚡		⚡
Cycle cells				⚡
Month	⚡		⚡	⚡
Date	⚡		⚡	⚡
Battery OCV	⚡***	⚡		
Battery type	⚡	⚡		
Maximum archive cycles	99	30	30	30

⚡*** = This item is archived but not available to Data-Mate/Print kit

DISTRIBUTED BY:

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 Data Sheet: 1330 11/00 5M Printed in U.S.A.

⚡ Data Link

View charge information on your computer screen. With our Data Link, you can easily download accumulated charge data from the SCR1000 to your computer. Review information associated with a particular cycle or from the last 30 cycles of charge. Data information can also be converted into a text file for import into a spreadsheet program.



⚡ Print Kit

When you simply want to print out charge cycle data, use the Print Kit. It allows you to download charge data from the SCR1000 control to a compatible printer.



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