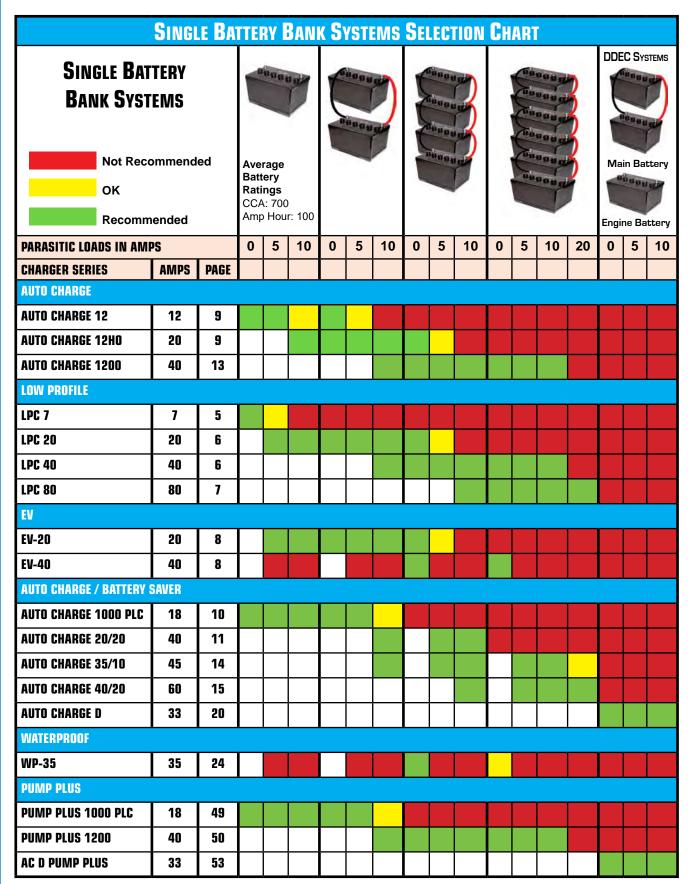
SECTION 1

BATTERY CHARGERS





CHARGER SELECTION GUIDE

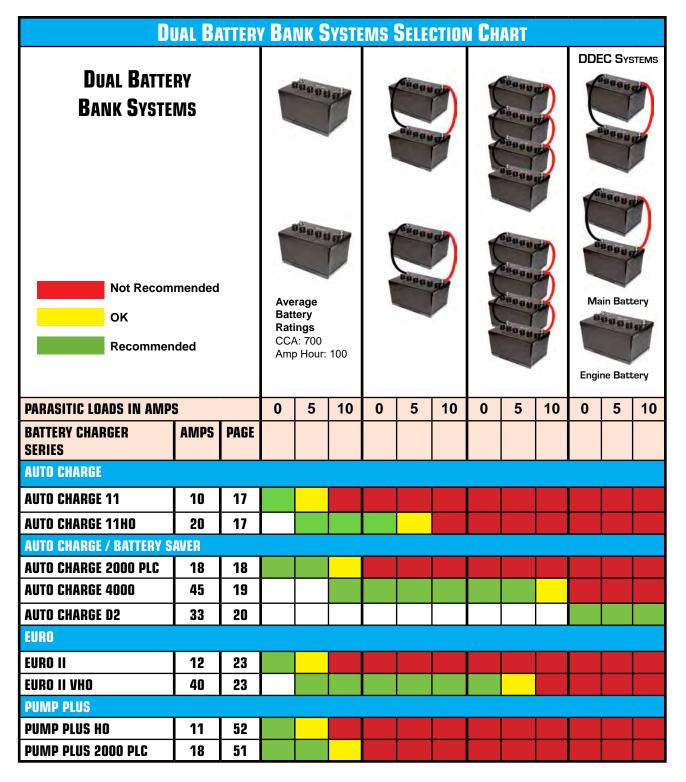


These chargers are for average recharge rates and average sized batteries. For specific applications, please contact our sales or engineering department with battery size, parasitic loads and required recharge time.



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CHARGER SELECTION GUIDE



These chargers are for average recharge rates and average sized batteries. For specific applications, please contact our sales or engineering department with battery size, parasitic loads and required recharge time.



1

4

BATTERY CHARGERS

Charge Single Battery Bank Power Sensitive Electronics Low Profile Case Fits in Tight Locations



Features

- 7A for charging a single battery bank
- Three step charging: bulk, absorption, and float
- Lightweight, small low profile size
- Clean output poses no interference with radios and other mobile devices

- Gel Cell/Lead-Acid switch selects the optimum charge/float voltages based on the battery type
- Included Charger Status indicator light changes color according to the output
- Current limiting prevents damage from an overload
- · Load activated cooling fan allows for continuous operation at full-rated output
- A Float/3 Step selector switch protects the batteries when charging under a continuous load
- Meets CE requirements
- · Includes a heavy duty stainless steel case designed for emergency vehicle use

			Electr	ical Data		D	imensio	าร	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wt.
445-4290-5	LPC 7	12	7	120 / 240	2.0 / 1.0	8.62"	4.93"	2.47"	3



LOW PROFILE CHARGER 40 WITH PLC - SINGLE BATTERY BANK

AUTO CI

Charge Single Battery Bank with Parasitic Load Compensation (PLC) for Power Sensitive Electronics Low Profile Case Fits in Tight Locations



- Newly enhanced LPC 40A with patented PLC (parasitic load compensation) technology
- Clean output poses no interference with radios • and other mobile electronics
- · Includes a 15A auxiliary output circuit with a power source selector switch for operating accessory loads i.e., air compressor pumps, handheld lights or handheld radios
- · Front panel connections for remote display and auxiliary loads
- · Includes a heavy duty aluminum case designed for emergency vehicle use
- · User Selectable:
 - Battery Type
 - 3 Step or Float 1, 5 or 10 hour timer
 - PLC

Remote Display Options



LPC 40



Bar Graph Display 091-200-IND



Status Center Display For LPC 40: 091-194-IND



Status Center Display in Watertight Case For LPC 40: 091-194-IND-WT-XX

Color Options





Super Auto Eject **Deluxe Covers Available** for this product see page 40



E-Z Slide Mount Plate: 091-200-EZM

For slide-in installation and removal of the LPC 40 or LPC 20 in hard to access areas with minimal vertical clearance



			Electi	ical Data		Di	mensio	າຣ		
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wt.	
091-200-12	LPC 40, w/ Bar Graph Display	12	40	120	6.0	13.25"	6.80"	3.30"	7	
091-200-12-194	LPC 40, w/ Status Center	12	40	120	6.0	13.25"	6.80"	3.30"	7	
091-200-12-194-WT-XX	LPC 40, w/ Watertight Display	12	40	120	6.0	13.25"	6.80"	3.30"	7	
091-200-EZM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
All units also available in 2	Il units also available in 240 VAC Input, contact the sales department for part number									



LOW PROFILE CHARGER 20 & 80 - SINGLE BATTERY BANK

Charge Single Battery Bank for Power Sensitive Electronics Low Profile Case Fits in Tight Locations

Features

- 20A and 80A for charging a single battery bank
- Clean output poses no interference with radios and other mobile electronics
- Includes a 15A auxiliary output circuit with power source selector switch for operating accessory loads i.e., air compressor pumps, hand lights or handheld radios
- Front panel connections for remote display and auxiliary loads
- Includes a heavy duty aluminum case designed for emergency vehicle use

Remote Display Options



Bar Graph Display 091-200-IND



Super Auto Eject Deluxe Covers Available for this product see page 40



Status Center Display LPC 20: 091-194B-IND LPC 80: 091-194C-IND



Status Center Display in Watertight Case LPC 20: 091-194B-IND LPC-80: 091-194C-IND-WT-XX

Color Options see p6





LPC 20

LPC 80







LPC 20

			Electri	cal Data		Di	mensio	าร	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wt.
091-206-12	LPC 80, w/ Bar Graph Display	12	80	120	13	13.75"	7.00"	4.09"	10
091-206-12-194C	LPC 80, w/ Status Center	12	80	120	13	13.75"	7.00"	4.09"	10
091-206-12-194C-WT-XX	LPC 80, w/ Watertight Display	12	80	120	13	13.75"	7.00"	4.09"	10
091-207-12	LPC 20, w/ Bar Graph Display	12	20	120	7.0	13.25"	6.80"	3.30"	7
091-207-12-194B	LPC 20 w/ Status Center	12	20	120	7.0	13.25"	6.80"	3.30"	7
091-207-12-194B-WT-XX	LPC 20 w/ Watertight Display	12	20	120	7.0	13.25"	6.80"	3.30"	7
091-200-EZM	EZ Slide Mount Plate for LPC 20 and LPC 40 (see page 6)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All units also available in 24	10 VAC Input, contact the sales de	epartment	for part nu	mber	.				
24 VDC version available	4 VDC version available, see Page 22 for details								



EV CHARGER SERIES - SINGLE BATTERY BANK

Charge Single Battery Bank Auxiliary Output for Electronics Low Profile Design



EV 40

Features

- · 20 and 40A models available for charging a single battery bank
- · Low profile design saves valuable space in compartments and/or under the seat
- · Clean output poses no interference with radios and other mobile electronics
- A 15A auxiliary output circuit with a power source selector switch for operating accessory loads i.e. air compressor pumps, handheld lights or handheld radios
- Heavy duty terminal block for secure connections
- Durable powder coat finish
- · Available as a kit with a remote battery meter
- · Includes a heavy duty aluminum case designed for emergency vehicle use
- · An optional mounting plate features slide-in and lock design for easy installation/removal under seats and other hard to access locations

EV-20 Features

- · 20A rating with a clean output no electronic interference
- · 2 step charging: bulk,float, no overcharging
- · Operates on 120V
- · Lowest profile design, only 2.32" high

EV-40 Features

- · Fast 3 step charging: Produces up to 40A output to quickly replenish batteries, then switches to lower float voltage maintenance mode to avoid overcharging
- · Includes a battery type selector switch to program use with Gel Cell/Flooded Lead Acid/ AGM batteries
- · Operates on 90-250V input, auto range

Optional Accessories

Remote Bar Graph Display: 023-5353-1

- · Charger "On" LED
- Bar graph battery condition
- · Operates when charger is not powered



Slide-in Mounting

Plate Assembly: 444-5279-0 Easy installation under seats and hard to access locations





Kick Plate: 444-5280-0 Protects front panel connections

Part Number	Description		Electric	cal Data		D	ıs	Wgt.	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	Н	wgı.
445-5393-0	EV-20, Charger	12	20	120/240	3.1	13.12"	6.80"	2.32"	5
445-5399-0	EV-20, Charger & Display	12	20	120/240	3.1	13.12"	6.80"	2.32"	5
445-5262-0	EV-40, Charger	12	40	120/240	6.2	13.12"	6.80"	3.13"	7
445-5265-0	EV-40, Charger & Single Display	12	40	120/240	6.2	13.12"	6.80"	3.13"	8
445-5264-0	EV-40, Charger & Dual Display	12	40	120/240	6.2	13.12"	6.80"	3.13"	9
444-5279-0	Mounting Plate EV20/40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
444-5280-0	Kick Plate Guard EV20/40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



BATTERY CHARGERS

8

AUTO CHARGE® 12 SERIES - SINGLE BATTERY BANK

Charge Single Battery Bank Provide Power for Onboard Electronics Front Panel Amp Meter

• 12 and 20A models available for charging a single

• Automatic operation regulates the output to a single

Front panel amp meter indicates the output current (Optional vehicle side mount indicator available)
Includes a heavy duty aluminum case with a

protective front panel and wire strain relief designed





12 HO

Optional Configurations

AC Outlet in Front Panel: 15A GFI duplex outlet with circuit breaker protection provides plug-in point for AC accessories (PIM option)

for emergency vehicle use

· Auto Charge 12 is UL recognized

Features

battery bank

battery bank



Dual Voltage Input: Selector switch on front panel for 120 or 240V, 50-60 hz input (DV)

ENERGIZED AND READY, WHEN SECONDS COUNT



Model Shown is UL Recognized: Auto Charge 12

Remote Display Options



Bar Graph Display Model 12: 091-165-016 Model 12HO: 091-199-001



LED Display Model 12: 091-11-102-12

Part Number	Description		Electric	al Data		l	Dimensior	าร	Wgt.	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	н	vvgt.	
091-165-12	Auto Charge 12	12	12	120	2.5	4.50"	5.50"	11.00"	12	
091-165-12-DV	Auto Charge 12 DV	12	12	120/240	2.5/1.3	4.50"	5.50"	11.00"	12	
091-170-12	Auto Charge 12 HO	12	20	120	4.7	4.25"	6.75"	12.75"	16	
091-170-DV-12	Auto Charge 12 HO-DV	12	20	120/240	4.7/2.3	4.25"	6.75"	12.75"	16	
091-170-PIM	Auto Charge 12 HO-PIM	12	20	120	4.7	4.25"	6.75"	12.75"	16	
091-12PIM	Auto Charge 12 PIM	12	12	120	2.5	4.25"	6.75"	12.75"	12	



AUTO CHARGE® 1000 PLC - SINGLE BATTERY BANK

Charge Single Battery Bank at 15 Amps Power Auxiliary Loads with 3 Amp *Battery Saver* Remote Display Included

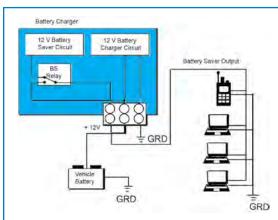


BATTERY CHARGERS

Features

- 15A battery charger with a 3A battery saver
- Microprocessor controlled, completely automatic operation regulates the output to a single battery bank
- Precision voltage controller senses the battery voltage, eliminating the need for sense wires
- Programmable Parasitic Load Compensation allows for the user to input the total accessory load on the vehicle (in amps). This allows the charger to shift the absorption stage set point so the battery voltage drops to the float voltage when desired current is reached
- Battery selection switch to select Gel Cell, Lead-Acid, AGM or Odyssey
- Float/3-Step Charge Mode Selection Switches
- Automatic current limit
- Battery Saver On/Off switch is used to bypass the Battery Saver and apply all 18A to charge the battery
- · Patent pending

Battery Saver Wiring Diagram



Battery Saver Operation: When the battery charger is operating, the vehicle's accessories are powered by the 12V battery saver circuit, internal to the charger. When the charger is powered off, a relay inside the charger switches the vehicle accessories directly to the battery.



Bar Graph Display 091-199-001



Remote Display Options

Super Auto Eject Deluxe Covers Available for this product see page 40



Status Center Display 091-194B-IND



Status Center Display in Watertight Case 091-194B-IND-WT-XX Color Options see page 6

			Electric	al Data		D	imensio	ons	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wt.
091-215-12	Auto Charge 1000 PLC, w/ Bar Graph Display	12	15/3	120	3.5	9.35"	5.90"	4.725"	11
091-215-12-194B	Auto Charge 1000 PLC, w/ Status Center	12	15/3	120	3.5	9.35"	5.90"	4.725"	11
091-215-12-194B-WT-XX Auto Charge 1000 PLC, w/ Watertight Display		12	15/3	120	3.5	9.35"	5.90"	4.725"	11





AUTO CHARGE[®] 20/20 - SINGLE BATTERY BANK

20/20

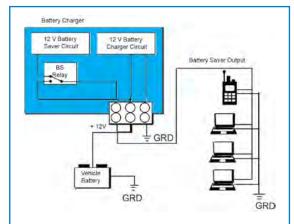
Charge Single Battery Bank at 20 Amps Power Auxiliary Loads with 20 Amp Battery Saver **Front Panel Amp Meters**



Features

- 20A battery charger with a 20A battery saver
- · Automatic operation regulates output to a single battery bank
- Separate 20A ATC fuse protected Battery Saver output eliminates any drain on the vehicle battery when in the station
 - Automatically disconnects auxiliary vehicle loads from battery when the charger is energized and powers them from the internal power supply
 - Clean output poses no interference with radios and other mobile devices
 - 20A output with automatic overload current limit
- Dual cooling fans
- · Reverse polarity protected
- AC input circuit breaker protection
- Includes a heavy duty aluminum case designed for emergency vehicle use

Battery Saver Wiring Diagram



Battery Saver Operation: When the battery charger is operating, the vehicle's accessories are powered by the 12V battery saver circuit, internal to the charger. When the Charger is powered off, a relay inside the charger switches the vehicle accessories directly to the battery.

Part Number	Description		Electric	al Data	D	Wat			
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	Н	Wgt.
091-216-20/20	Auto Charge 20/20	12	20 / 20	120	8.5	13.125"	8.250"	5.233"	13





NEW

AUT

Next Generation Single Battery Bank at 40 Amps Power with Parasitic Load Compensation

Features

- NEW Parasitic Load Compensation (PLC) allows for user input of total accessory load amps on the vehicle. This allows the charger to shift the absorption stage set point so the battery voltage drops to the float voltage when desired current is reached
- Patented PLC Technology
- NEW Low Profile-reduced height and lighter in weight
- Configurable for 3-Step or Float Charging
- Choice of Built-in Display options:
 Bar Graph or Digital
- Choice of Remote Displays:
 - Single Bar Graph
 - Auto Charge Status Center
 - Auto Charge Status Center in Watertight Case
- Optional E-Z Slide Mounting Plate for slide-in installation and removal of the Auto Charge 1200 charger located in hard to access areas
- Accommodates Lead -Acid,Gelled Electrolyte, AGM and Odyssey® battery types

Optional Accessory

E-Z Slide Mount Plate: 091-200-EZM

For slide-in installation and removal of the Auto Charge 1200 Remote charger in hard to access areas and spaces with minimal vertical clearance





Bar Graph Display

091-199-001

Status Center Display 091-194-IND



Remote Display Options

Super Auto Eject Deluxe Covers Available for this product see page 40



Status Center Display in Watertight Case 091-194-IND-WT-XX Color Options see page 6

Part Number	Description		Electric	al Data		D	imensions	;	Mat
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	Н	Wgt
091-187-12	Auto Charge 1200	12	40	120	6.0	13.25"	6.80"	3.30"	7
091-187-12-194	Auto Charge 1200 with status center	12	40	120	6.0	13.25"	6.80"	3.30"	7
091-200-EZM	EZ Slide Mount Plate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All units also available in 240 VAC Input, contact the sales department for part number									





Next Generation Low Profile Charger with PLC at 40 Amps Power Onboard Electronics Remote Display Included

Features

- NEW Patented Parasitic Load Compensation (PLC), adjustable for 5-35 amperes
- NEW Low Profile-reduced height and lower in weight
- · Allows user input of total accessory load amps on vehicle
- Ouput voltage regulated
- Configurable for 3-Step or Float Charging
- Selectable for 1,5, or 10 hour Safety Timer while in 3-Step mode
- Choice of Remote Display:
 - Single Bar Graph
 - Auto Charge Status Center
 - Auto Charge Status Center in Watertight Case
 - Super Auto Eject Deluxe Cover- #091-55-234-XXX Bar Graph and #091-55-194-XXX Digital Display
- Accommodates Lead -Acid,Gelled Electrolyte, AGM and Odyssey® battery types

Remote Display Options



Bar Graph Display 091-199-001



Super Auto Eject Deluxe Covers Available for this product see page 40



Status Center Display 091-194-IND

ENERGIZED AND READY, WHEN SECONDS COUNT



Status Center Display in Watertight Case 091-194-IND-WT-XX Color Options see page 6



Optional Accessory

For slide-in installation and removal of the Auto

Charge 1200 Remote charger in hard to access

areas and spaces with minimal vertical clearance

E-Z Slide Mount Plate: 091-200-EZM

			Electrica	al Data		Dir	mension	S	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wgt.
091-187-12-REMOTE	1200 Remote w/ Bar Graph	12	40	120	6	13.25"	6.80"	3.30"	7
091-187-12-R-194	1200 Remote w/ Status Center	12	40	120	6	13.25"	6.80"	3.30"	7
091-187-12-R-194-WT-XX	1200 Remote w/ Watertight S.C.	12	40	120	6	13.25"	6.80"	3.30"	7
091-200-EZM	EZ Slide Mount Plate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A





AUTO CHARGE® 35/10 - SINGLE BATTERY BANK

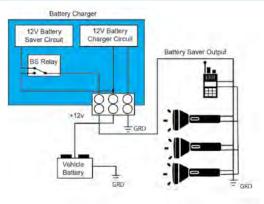
Charge Single Battery Bank at 35 Amps Power Auxiliary Loads with 10 Amp Battery Saver **Remote Display Included**



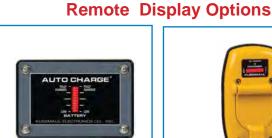
Features

- 35A battery charger with a 10A battery saver
- · Automatic operation regulates the output to a single battery bank
- · A patented built-in sense circuit checks the battery voltage 120 times per second to compensate for a voltage drop in the charging wires providing a quick re-charge and avoiding overcharging
- · A separate 10A Battery Saver output eliminates any drain on the vehicle battery when in the station
 - Automatically disconnects any auxiliary vehicle loads from the battery when the charger is energized
 - Ideal for charging handheld lights and portable radios
 - 10A output with automatic overload current limit
 - Not recommended for powering highly sensitive electronic loads
- · Front panel LED displays AC power applied and Battery Saver circuit overload
- A Remote Bar Graph Display is included
- · Includes a heavy duty aluminum case with a protective front panel plate and wire strain relief designed for emergency vehicle use

Battery Saver Wiring Diagram



Battery Saver Operation: When the battery charger is operating, the vehicle's accessories are powered by the 12V battery saver circuit, internal to the charger. When the charger is powered off, a relay inside the charger switches the vehicle accessories directly to the battery.



Bar Graph Display 091-199-001



Super Auto Eject **Deluxe Covers Available** for this product see page 40

Port Number	Decorintion		Electric	al Data		Dir	S	Wgt.	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	Н	wygı.
091-35/10	AC 35/10 w/ Bar Graph Display	12	35	120	10	14.00"	5.50"	5.25"	26





AUTO CHARGE[®] 40/20 - SINGLE BATTERY BANK

Charge Single Battery Bank at 40 Amps Power Auxiliary Loads with 20 Amp *Battery Saver* Remote Display Included



Features

- 40A battery charger with a 20A battery saver
- Automatic operation regulates the output to a single battery bank
- Separate 20A ATC fuse protected Battery Saver output eliminates any drain on the vehicles battery when in the station
 - Clean output poses no interference with radios and other mobile devices
- Gel Cell, Lead-Acid, and AMG switch selects the optimum charge/float voltages based on the battery type
- 1-hour "boost" voltage for rapid battery recovery
- Automatic current limit
- · Reverse polarity protected
- AC input circuit breaker protection





Bar Graph Display 091-200-001



Status Center Display 091-194-IND



in Watertight Case 091-194-IND-WT-XX

Color Options





ARGE[®] 40/20

Super Auto Eject Deluxe Covers Available for this product see page 40

			Electric	al Data		Din	nensior	າຣ	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wt.
091-216-40/20	Auto Charge 40/20 w/ Bar Graph Display	12	40 / 20	120	8.5	13.25"	7.13"	5.25"	13
091-216-40/20-194	Auto Charge 40/20 w/ Status Center	12	40 / 20	120	8.5	13.25"	7.13"	5.25"	13
091-216-40/20-194-WT-XX	Auto Charge 40/20 w/ Watertight Display	12	40 / 20	120	8.5	13.25"	7.13"	5.25"	13



AUTO CHARGE® 1 AND MM - SINGLE BATTERY BANK

Auto Charge 1

For Charging Small Batteries





Auto Charge 1

Features

- 1A charge rate is ideal for small 12V batteries (5-20 Amp/Hour) and avoids overcharging
- Automatically charges the battery
- Low ripple output won't cause interference with the electronics
- · Current limited so it cannot be overloaded
- Compact and sturdy molded case with mounting flanges for vehicle installation
- · Fanless operation



For Auxiliary Generators





Features

- 5A, 12V charge rating (6 & 24V units also available)
- Designed specifically for maintaining generator start batteries
- Automatically shuts off when batteries are fully charged to avoid overcharging
- Ammeter indicates the charge rate
- Features a rugged aluminum case designed for industrial use
- Compact size and is wall mountable

			Electri	cal Data		D	imension	IS	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wgt.
091-31-12	Auto Charge 1	12	1	120	.5	3.50"	2.25"	3.50"	3
091-7-12	Maintenance Master	12	5	120	1	5.30"	5.50"	9.75"	9
091-7-24	Maintenance Master, 24 Volt	24	2.5	120	1	5.30"	5.50"	9.75"	9



AUTO CHARGE® 11 SERIES - DUAL BATTERY BANKS

2

Charge Dual Battery Banks Power for Onboard Electronics Front Panel Amp Meter





11 HO

Features

- 10 and 20A models are available
- Automatically charges dual battery banks utilizing independent sense circuits that control voltage and current to each battery. Parasitic loads on one battery do not effect the second
- Full amperage output is available to either battery if the adjacent bank does not require charging, optimizing the use of available power when charging banks with differing parasitic load rates
- Front panel amp meter indicates the total output current
- Optional Remote Bar Graph display or LED indicator
- Includes a heavy duty aluminum case with a protective front panel plate and wire strain relief designed for emergency vehicle use
- Model 11, UL recognized

Optional Configurations

AC Outlet in Front Panel: 15A GFI duplex outlet with circuit breaker protection provides a plug-in point for AC accessories (PIM option)



Dual Voltage Input: Selector switch on the front panel for 120 or 240V, 50-60 hz. input (DV)



Model Shown is UL Recognized: Auto Charge 11

-

Remote Display Options



Dual Bar Graph Display 091-11-127



LED Display 091-11-102-12

Part Number	Description		D	Wgt.					
Part Number		DC Volts	DC Amps	AC Volts	AC Amps	L	w	Н	wgı.
091-11-12	Auto Charge 11	12	10	120	2.5	4.375"	5.50"	11.375"	12
091-11DV-12	Auto Charge 11 DV	12	10	120/240	2.5/1.3	4.375"	5.50"	11.375"	12
091-11HO-12	Auto Charge 11 HO	12	20	120	4.7	4.25"	6.75"	12.75"	19
091-11HO-DV-12	Auto Charge 11 HO-DV	12	20	120/240	4.7/2.4	4.25"	6.75"	12.75"	19
091-11HO-PIM	Auto Charge 11 HO-PIM	12	20	120	4.7	4.25"	6.75"	12.75"	19
091-11PIM	Auto Charge 11 PIM	12	10	120	2.5	4.25"	6.75"	12.75"	12

us

ELECTRONICS

AUTO CHARGE® 2000 PLC - DUAL BATTERY BANKS

Charge Dual Battery Banks at 15 Amps Power Auxiliary Loads with 3 Amp *Battery Saver* Remote Display Included



Features

- 15A charger with a 3A battery saver
- Automatically charges dual battery banks utilizing independent sense circuits that control the voltage and current to each battery. Parasitic loads on one battery do not effect the second
- Precision voltage controller senses the battery voltage which eliminates the need for sense wires
- Full amperage output is available to either battery bank if the adjacent bank does not require charging, optimizing the use of available power when charging banks with differing parasitic load rates
- Programmable Parasitic Load Compensation allows for the user to input the total accessory load on the vehicle (in amps). This allows the charger to shift the absorption stage set point so the battery voltage drops to the float voltage when the desired current is reached
- Separate 3A Battery Saver output eliminates any drain from auxiliary loads on the vehicle battery when in the station
 - Automatically disconnects auxiliary vehicle loads from the battery when the charger is energized and powers them from the internal power supply
- Includes a heavy duty aluminum case designed for emergency vehicle use

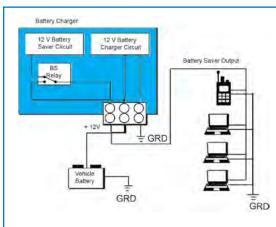




Remote Bar Graph Display Included: 091-39-IND

- Provides state-of-charge status when in the station
- Indicates charger "On" and operating

Battery Saver Wiring Diagram



Battery Saver Operation: When the battery charger is operating, the vehicle's accessories are powered by the 12V battery saver circuit, internal to the charger. When the charger is powered off, a relay inside the charger switches the vehicle accessories directly to the battery.

Remote Display Option



NEW Super Auto Eject Deluxe Cover with Bar Graph Display and Dual LED Indicator available for this product see page 40

Part Number	Description		Electric	al Data	D	Mat			
	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	Н	Wgt.
091-237-12	AC 2000 PLC, w/ Dual Bar Graph	12	15 / 3	120	3.5	9.35"	5.90"	4.725"	17



Next Generation Dual Output Charger at 45 Amps Remote Display Included



Features

- Next Generation 45A charger
- · NEW- Low Profile-reduced height and lower in weight
- · Designed for vehicles with dual battery system
- Output voltage regulated
- NEW-Acommodates Lead-Acid, Gelled Electrolyte, AGM and Odyssey® battery types
- Auxiliary 15 amp output circuit with AC/DC selector switch for operating accessory loads: air compressor pumps, handlights or handheld radios
- Front panel connections for remote display and auxiliary loads
- Includes a heavy duty aluminum case designed for emergency vehicle use
- Power "On" LED indicator

E-Z Slide Mount Plate:

clearance

For slide-in installation and

removal of the Auto Charge 4000

charger in hard to access areas

and spaces with minimal vertical

• System Status Indicator





Remote Bar Graph Display Included: 091-39-IND

Provides state-of-charge status when in the station
Indicates charger "On" and operating

Optional Accessory

Remote Display Option



NEW Super Auto Eject Deluxe Cover with Bar Graph Display and Dual LED Indicator available for this product see page 40

Part Number			Electrica	al Data		Di	mensio	ns	
	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wgt.
091-89-12	AC 4000, w/ Dual Bar Graph	12	45	120	6	13.25"	6.80"	3.30"	7
091-89-24	AC 4000, w/ Dual Bar Graph	24	20	120	3	13.25"	6.80"	3.30"	7
091-200-EZM	EZ Slide Mount Plate	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Units also available in 240	VAC Input, contact the sales depar	tment for p	art number						



AUTO CHARGE® D & D2 - MULTIPLE BATTERY BANKS

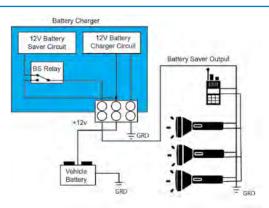
Charge Dual or Triple Battery Banks at 28 Amps Power Auxiliary Loads with 5 Amp Battery Saver **Remote Display Included**



Features

- · 28A battery charger with a 5A battery saver Designed for DDEC Vehicles
- · Automatic operation regulates the output to multiple battery banks
- · A patented built-in sense circuit checks the battery voltage 120 times per second to compensate for a voltage drop in charging wires providing a quick re-charge without overcharging
- Model D: two battery banks, Model D2: three battery banks
- Separate 5A Battery Saver output eliminates any drain from auxiliary loads on the vehicle battery when in the station
 - Automatically disconnects auxiliary vehicle loads from the battery when the charger is energized and powers them from the internal power supply
 - Not recommended for powering highly sensitive electronic loads
- Front panel LED displays AC power applied and Battery Saver circuit overload
- · Includes a heavy duty aluminum case designed for emergency vehicle use





Battery Saver Operation: When the battery charger is operating, the vehicle's accessories are powered by the 12V battery saver circuit, internal to the charger. When the charger is powered off, a relay inside the charger switches the vehicle accessories directly to the battery.





Remote Bar Graph Display Included with Auto Charge D: 091-66-IND



Remote Bar Graph Display Included with Auto Charge D2: 091-74-IND

- · Provides state-of-charge status when in station
- · Indicates charger "On" and operating

Part Number		Electrical Data				Dimensions			
	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wgt.
091-66-12	AC D, w/ Dual Bar Graph	12	25 / 5	120	8	5.25"	7.0"	13.25"	27
091-74-12	AC D2, w/ Triple Bar Graph	12	25 / 5	120	8	5.25"	7.0"	13.25"	28







AUTO CHARGE® 20 - THREE BATTERY BANKS

Charge Three Battery Banks at 20 Amps Power Onboard Electronics Front Panel Amp Meter



Features

- 20A for charging three battery banks
- Automatically charges three battery banks utilizing independent sense circuits that control the voltage and current to each battery. Parasitic loads on one battery do not effect the others
- Full amperage output is available to any battery if the adjacent banks do not require charging, optimizing the use of available power in charging banks with differing parasitic load rates
- · Front panel amp meter indicates total output current
- Optional remote display
- Includes a heavy duty aluminum case with a protective front panel plate and wire strain relief designed for emergency vehicle use

Optional Configurations

AC Outlet in Front Panel: 15A GFI duplex outlet with circuit breaker protection provides a plug-in point for AC accessories (PIM option)



Dual Voltage Input: Selector switch on the front panel for 120 or 240V, 50-60 hz. input (DV)





Remote Display Options



Bar Graph Display 091-118-022-12



LED Display 091-11-102-12

Part Number	Description		Electrical Data					ıs	Wgt.
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	W	Н	wgt.
091-10-12	Auto Charge 20	12	20	120	4.7	4.25"	6.75"	12.75"	22
091-10-24	Auto Charge 20, 24 Volt	24	10	120	4.7	4.25"	6.75"	12.75"	22
091-10-DV-12	Auto Charge 20 DV	12	20	120/240	4.7/2.3	4.25"	6.75"	12.75"	22
091-10PIM	Auto Charge 20 PIM	12	20	120	4.7	4.25"	6.75"	12.75"	22



LPC 45

Charge 24V Single Battery Bank Power Sensitive Electronics Low Profile Case Fits in Tight Locations



ENERGIZED AND READY, WHEN SECONDS COUNT

Features

- 45A charger for 24VDC vehicle configuations
- · Light weight, small low profile size
- · Clean output poses no interference with radios and other mobile devices
- · 15A, 24VDC auxiliary output circuit with a power source selector switch for operating accessory loads i.e., air compressor pumps, handheld lights or handheld radios
- · Front panel connections for a remote display and auxiliary loads
- · Includes a heavy duty aluminum case designed for emergency vehicle use
- · Remote battery sensing output to compensate for longer charging cables



AUTO CHARGE STATUS CENTER **Bar Graph Display Status Center Display** 091-200-IND in Watertight Case 091-194C-24-IND-WT-XX AUTO CHARGE STATUS CENTER 🥞 **Color Options** Super Auto Eject YW RD BL **Deluxe Covers Available** for this product Yellow Red Blue see page 40 GY BLK WН Status Center Display 091-194C-24-IND White Gray Black

Part Number			Electric	Di					
	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	Н	Wt.
091-206-24	LPC 45, w/ Bar Graph Display	24	45	120	13	13.75"	7.00"	4.09"	10
091-206-24-194C	LPC 45, w/ Status Center	24	45	120	13	13.75"	7.00"	4.09"	10
091-206-24-194C-WT-XX	LPC 45, w/ Watertight Display	24	45	120	13	13.75"	7.00"	4.09"	10
12 VDC version available,	see Page 7 for details								

Remote Display Options



Charge Single, Dual or Triple Battery Banks 120/240V Source Front Panel Amp Meter





Euro Charger II



Euro Charger I

Euro Charger III





18A, Triple Battery Bank



40A, Single or Dual Bank

12A, Single or Dual Bank Output

Features

- 12, 18 and 40A models available
- Wide variety of input/output options to meet various international applications
- Automatically charges battery banks utilizing independent sense circuits that control the voltage and current to each battery. Parasitic loads on one battery do not effect the others
- Automatically charges and supports parasitic DC loads: data terminals, radios, hand lights, etc. assuring battery is ready for vehicle start
- Full amperage output is available to any battery if the adjacent banks do not require charging
- · Front panel amp meter indicates the total output
- Optional LED or Bar Graph Remote Displays available
- 120/240V operation
- Meets CE requirements
- Includes a heavy duty aluminum case with a protective front panel plate and wire strain relief designed for emergency vehicle use

Remote Display Options



LED Display 091-90-012-12 For All Models



Dual Bar Graph Display 091-11-127-12 For Euro Charger II & II VHO



Single Bar Graph Display 091-94-12E For Euro Charger I & I VHO



Triple Bar Graph Display 091-118-022-12 For Euro Charger III

Part Number	Description		Electric	al Data		C	IS	Wgt.	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	Н	Wgt.
091-90-12	Euro Charger I	12	12	120/240	2.6/1.3	4.375"	5.50"	11.375"	12
091-90-24	Euro Charger I, 24 Volt	24	6	120/240	2.6/1.3	4.375"	5.50"	11.375"	12
091-162-12	Euro Charger I VHO	12	40	120/240	10/5	9.25"	9.375"	14.00"	33
091-162-24	Euro Charger I VHO, 24 Volt	24	20	120/240	10/5	9.25"	9.375"	14.00"	33
091-117-12	Euro Charger II	12	12	120/240	2.6/1.3	4.375"	5.50"	11.375"	17
091-117-24	Euro Charger II, 24 Volt	24	6	120/240	2.6/1.3	4.375"	5.50"	11.375"	17
091-143-12	Euro Charger II VHO	12	40	120/240	10/5	9.25"	9.375"	14.00"	39
091-143-24	Euro Charger II VHO, 24 Volt	24	20	120/240	10/5	9.25"	9.375"	14.00"	39
091-118-12	Euro Charger III	12	18	120/240	4.7/2.4	4.25"	6.75"	12.75"	19
091-118-24	Euro Charger III, 24 Volt	24	9	120/240	4.7/2.4	4.25"	6.75"	12.75"	19



Waterproof for Exposed Locations Remote Display Included

Features

- 40A for charging a single battery bank
- Sealed case allows for installations in exposed locations
- Frees in-cab and compartment space by allowing charger installation in areas not suitable for standard chargers
- Sealed terminals
- Rugged anodized aluminum case with an intergrated heat sinks for cool operation
- Remote bar graph display included
- Meets IP67



Remote Display Options



			D								
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	W H	Wgt.		
091-261-12	WP 600, Waterproof Charger	12	40	120	6.0	13.25"	7.875"	4"	13		
Unit also available in 240 VAC Input, contact the sales department for part number											





Automatically Power Onboard Computers and MDT's When AC Line Applied to Truck Preserves Vehicle Battery





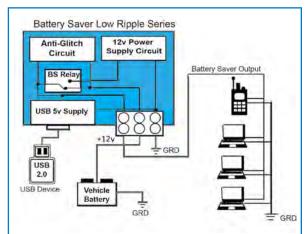
Battery Saver Low Ripple,HO

Features

- 20A and 40A, 12V battery saver
- Relay removes auxiliary loads from the vehicle battery and connects to the battery saver preventing the battery from discharging when it's in the station
- Clean, low ripple output causes no interference with sensitive electronics
- · Fast acting relay ensures "glitch" free power transfer
- · Current limiting prevents an overload
- · Factory set to 13.2V
- Front panel "Power On" indicator
- Designed for rigors of emergency vehicle use; heavy duty case and components
- USB Model Only:
 - Front panel USB interface is used for recharging electronic devices i.e., iPhone
 - 5.0V, 1A USB Output

Battery Saver LR 40,VHO

Battery Saver Wiring Diagram



Battery Saver Operation: When the battery charger is operating, the vehicle's accessories are powered by the 12V battery saver circuit, internal to the charger. When the charger is powered off, a relay inside the charger switches the vehicle accessories directly to the battery.

			Electric	al Data		D	imensio	ons	
Part Number	Description	DC Volts	DC Amps	AC Volts	AC Amps	L	w	н	Wgt.
091-195-12	Battery Saver Low Ripple HO	12	20	120	4.5	2.50"	5.50"	13.00"	5
091-195-12-USB	Battery Saver Low Ripple HO, w/USB	12	20	120	4.5	2.50"	5.50"	13.00"	5
091-256-12	Battery Saver Low Ripple,VHO	12	40	120	4.5	2.50"	5.50"	13.00"	5

