

SUPER START

BATTERIES



SPECIFICATIONS

SUPERSTART PART #	NOMINAL VOLTAGE	NOMINAL CAPACITY @ 20 HR. RATE A.H.	DIMENSIONS (IN INCHES)			HEIGHT OVER TERMINAL (IN INCHES)	WEIGHT (IN POUNDS)	TERMINAL TYPE (SEE OPPOSITE PAGE)	BATTERY TERMINAL LAYOUT (SEE FIGURE LAYOUTS OPPOSITE PAGE)
			LENGTH	WIDTH	HEIGHT				
ES12-12	12	12	5.94	3.86	3.66	3.86	8.40	Faston 2	4
ES17-12	12	18	7.13	2.99	6.57	6.57	13.82	Lead Term. 2	10
ES26-12	12	26	6.54	6.89	4.92	4.92	20.52	Lead Term. 2	3
ES40-12	12	40	7.80	6.54	6.73	6.73	31.04	Lead Term. 4	3
ES4-6	6	4	2.76	1.85	3.98	4.21	2.00	Faston 1	11
ES5-12	12	5	3.54	2.76	4.00	4.25	4.04	Faston 1	7
ES7-12	12	7	5.94	2.56	3.70	4.02	5.91	Faston 1, 2	4
ES8.2-6S	6	9	3.88	2.20	4.65	4.65	3.74	Faston 1	8

SEALED LEAD ACID (SLA) BATTERY FEATURES AND BENEFITS

- **SEALED, MAINTENANCE-FREE DESIGN** never need to add water
- **NONSPILLABLE** – battery can be mounted in any position without danger of leaking electrolyte (upside down installation not recommended)
- **LONGER SERVICE LIFE** – lead calcium alloy provides longer battery life and performance
- **VALVE-REGULATED TECHNOLOGY** produces minimal amounts of gassing
- SLA batteries **DEVELOP NO MEMORY**, whether used in cyclic or standby service.

IMPORTANT CHARGING INSTRUCTIONS FOR SLA BATTERIES

WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED.

Constant under- or overcharging will damage any battery and shorten its life! Use a good constant potential, voltage-regulated charger. Do not charge in a sealed container.

Charging Voltage for 12V Batteries @ 68°F (20°C):

Cycle Use: 14.4 – 15.0V*

Standby Use: 13.5 – 13.8V

*Cycle Use for ESU1-35, ES27, ES24 and ES22NF is: 14.4 – 14.6V

Charging Voltage for 6V Batteries @ 68°F (20°C):

Cycle Use: 7.2 – 7.5V

Standby Use: 6.75 – 6.9V

Charging Voltage for 4V Batteries @ 68°F (20°C):

Cycle Use: 4.8 – 5.0V

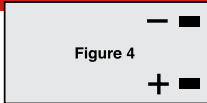
Standby Use: 4.5 – 4.6V

TERMINAL INFORMATION

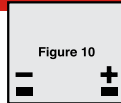
TERMINAL LAYOUTS



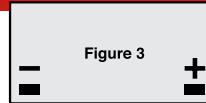
ES12-12



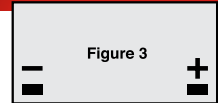
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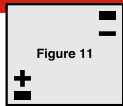
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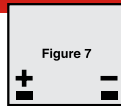
ES40-12



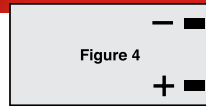
ES4-6



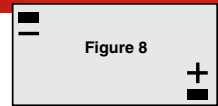
ES5-12



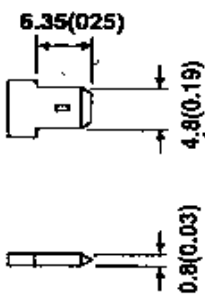
ES7-12



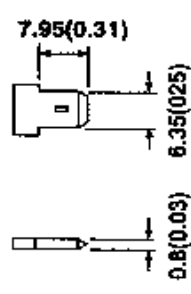
ES8.2-6S



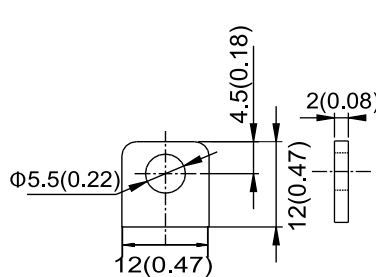
TERMINAL TYPES



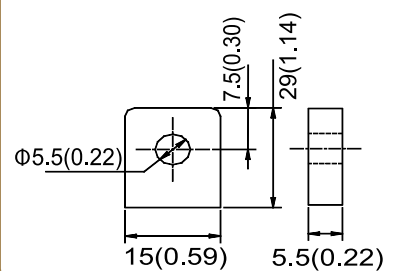
FASTON 1



FASTON 2



LEAD TERMINAL 2



LEAD TERMINAL 4

Applications Suitable for SEALED LEAD ACID BATTERIES

Aerospace

Alarms

Burglar

- Fire
- Monitoring Equipment Backup
- Pollution
- Panels
- Seismic (Geophysical and Military)

Aircraft

- Instrumentation
- Communication

All Terrain Vehicles (ATV)

Amusement Devices

Animal Feeders

Appliances Portable

Audio/Video Equipment

Automotive

- Electronics Backup
- Fuel Systems (Programmable)
- Security Systems
- Theft Locator

Backup Power

Bancry Power Packs Belts, Etc.

Barcode Scanners

Camera

- Motor Drives

Casino Gaming Machines

Chemical Sprayer

Cellular Telephones

Clocks

- Commercial
- Scientific Communications

Communications

- Radio, TV, and Cable TV Repeaters
- Telephones (Portable)
- Telephone Systems (Backup)

Computer

- Data logging inventory etc. (Portable)
- Home and hobby (Memory Backup)
- Laptop
- Mainframe (Memory Backup)
- Peripherals (Operation Backup)
- Point of Sale Terminals (Memory, Operation Backup)

Controls

- Commercial (Programmable)
- Counting (Programmable)
- Industrial (Programmable)
- Thermostatic (Programmable)
- Timing (Programmable)

Duck Decoys

Electric

- Door Opener/Closers
- Fans (Toxic Gas Venting Backup)
- Fences (Hand Control Backup)
- Locks (Backup)
- Pumps (Backup)
- Scales (Programmable, Portable)
- Scooters

Electronic

- Test Equipment (Programmable, Portable)
- Cash Register (Backup)

Emergency

- Devices
- Lighting

Entertainment

- Music Instruments Amps (Portable)
- Public Address Amps (Portable)
- Stereo Tuners (Programmable)
- Tape Recorders (Portable)
- TV Receivers (Portable)
- VCRs (Portable)
- Video Cameras (Portable)

Environmental

- Test Equipment (Portable, Programmable)

Exit Light (Backup Power)

Fence Chargers

Freeway/Highway

- Call Boxes

Gas Station

- Electronic Pump Backup

Geophysical

- Seismic Measurement (Portable, Programmable)
- Surveying Equipment, Laser Instrumentation (Portable)

Hobby

- Model Airplane Starting

LAN (Backup Power)

Laptop Computers

Lawn & Garden

- Equipment Starting

Lifts

Lights

- Camera (Video and Film) (Portable)
- Emergency (Stationary, Portable)
- Exit (Stationary)
- Highway Safety (Barricades, Cones, etc.) (Portable)
- Maintenance/Sports (Portable)
- Photographic
- Railroad
- Underwater

Load Leveling

Marine

- General Instrumentation
- Depth Finders (Portable)
- Underwater Propulsion Devices

Medical

- Alert Equipment (Portable, Stationary)
- Beds
- CPR Equipment
- Crash Carts
- Diagnostic (Portable, Stationary)
- Dialysis Machine (Power Backup)
- Incubators
- Infusion Pumps
- Innaintors
- Life Support Equipment (Portable, Stationary)
- Telemetry Equipment (Portable, Stationary)
- Therapy Equipment (Portable, Stationary)
- Wheelchair and Prosthetics

Metal Detectors (Portable)

Microwave Communications (Backup Power)

Military

- Missile Launch & Tracking Systems
- Fire Control System
- Target Range Equipment (Programmable)

Mini UPS

Motorcycles

Office Equipment (Portable, Stationary)

Oil Refinery Backup

Personal Watercraft (Jet ski)

Photovoltaic

Point of Sale Equipment

- Shopping Carts
- Terminal (Backup Power)

Portable Lights

Power

- Supplies
- Tools

Printers (Portable)

PBX Backup

Radio (Portable)

Refrigeration Units for Shipping

Robots

Security

Shopping Cart Displays and Calculators

Snowmobiles

Solar Powered Equipment (Portable, Stationary)

Solar Walk Lights

Speed Measurement Laser & Radar (Portable)

Sports

- Ice Drills (Portable)
- Scoring Systems (Portable, Programmable)
- Skydiving Instrumentation (Portable)
- Timing Systems (Portable)

Switch Gears for Utilities

Switching Systems Backup Power LAN

Fiber-Optics

Telecommunications

Telco

- Controlled Environmental Vaults

Test Equipment (Portable)

Tools

- Garden Equipment (Portable)
- Gas Motor Starting
- General (Portable)
- Household Equipment (Portable)
- Power Packs

Toys

- Electro Mechanical
- Gas Motor Starting
- Programmable
- Radio Controlled
- Riding

UPS (Uninterruptible Power Supplies)

Utilities

Vending Machines (Programmable)

Vehicle Recovery Systems

Video Cameras

VSAT Backup Power

Water Flow Controller (Backup)

Weather Instrumentation (Programmable, Portable)

Wheelchair and Scooters

- Mobility Devices

CAUTION: Be sure replacement battery is of same size, capacity and terminal arrangement to avoid injury and/or equipment damage. O'Reilly Auto Parts and its battery manufacturers and sellers expressly disclaim any damage or injury due to misapplication of batteries based on this chart. Always consult owner's manual for correct replacement size.