

INSTANT OFF-GRID CONTAINERS

COMPLETE with Solar Charged Battery Bank and Inverter



**A self contained power unit for solar panel
mounting, storage, office, tiny home and
more!**



**AMERICA'S #1
MOST TRUSTED**



RPSsolarpumps.com/instant



support@ruralsolarsystems.com



888-637-4493



40250 County Road 27
Woodland, CA 95776

INSTANT OFF-GRID CONTAINERS

COMPLETE with Solar Charged Battery Bank and Inverter



Options..

BYO-Container



Bring your own container, a retrofit kit for outfitting with solar + WaterSecure.

Quick Deploy Power Station



Container + WaterSecure.
Perfect for ranch storage! Ready to operate in 3-4 hours!

Move In Ready



COMPLETE SET UP! Container + WaterSecure + fully framed windows, insulation and a door. Customizable!

Instantly Go Off-Grid!

Our team has been hard at work creating the ultimate off-grid workspace solution - RPS tested Watersecure backed Solar Containers to power our own offices for the last two years! Our 20 and 40 foot shipping containers are outfitted with roof mounted solar power on the outside, and on the inside, a rugged inverter with power ready battery bank. Fully customizable to your exact needs. The durable container design is completely waterproof, protects you and your equipment from the elements and any potential security threats. With NO assembly required you can have your own storage, living space or workspace ready in just a few hours.

A great fit for...

- Construction sites
- Rural office
- Field office
- Farm and Ranch storage
- Tiny home
- Bug Out Property
- Hunting Camp
- Airbnb Rental
- Power enclosure
- Shed and RV alternative

WAITLIST CURRENTLY TAKING DEPOSITS
CALL 888-637-4493



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	20 foot	20 foot	
	40 foot	40 foot	40 foot
System Solar Array Size (Watts)	3,000W (limited large appliance use)	6,000W (limited large appliance use)	12,000W
Small office (two person)	X	X	X
Basic Farm/ Ranch Storage and Charging	X	X	X
Small Basic Cabin	X	X	X
Large office (four person)		X	X
Power Tool Heavy Use Jobsite			X
Built Out Home with Kitchen and Bathroom			X

Small Basic Cabin Example: Coffee maker, router, TV, 16 cubic feet fridge, microwave, small electric oven, lights.

Small office example: Laptops, router, monitors, AC mini-split, 5.6 cubic foot refrigerator

Large Office example: Laptops, router, monitors, AC mini-split, TV, refrigerator, water dispenser, charging multiple devices, large lights, air filter

Built out home example: Although the 12,000W option is hearty, this is not a system designed to power lots of heavy loads that require long run times and may overlap use, like hot water heaters, electric dryers, and electric stoves. Most off-gridders opt to use gas versions to offset power consumption. Still a good choice for fridges and freezers, all range of small appliances, AC splitter units and home health machines.

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Option 1: BYOC (Bring your own container)

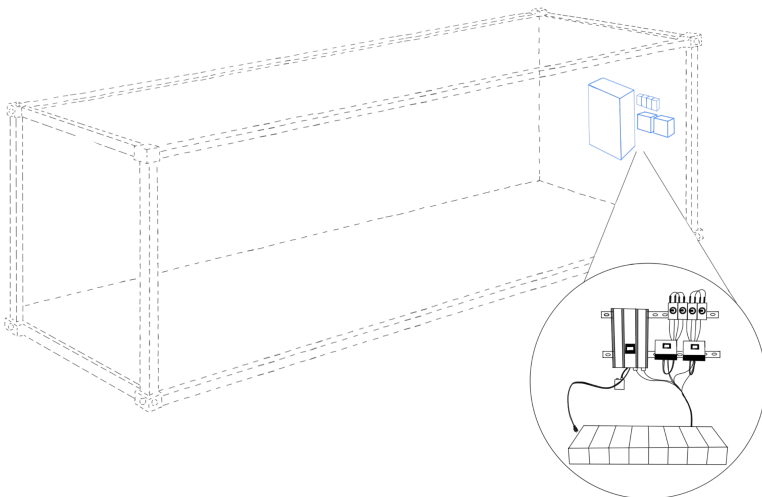
You supply the container, RPS will hook you up with the solar panels, no-weld top of container racking system and Watersecure. Our all-in-one WaterSecure kit transforms your shipping container into a functioning off-grid enclosure.

In this option, RPS sends you the parts and you finalize construction on the container. RPS supplies the plans on how to mount the electronics inside the container and the procedure for erecting the solar panel mounting on the roof. Great for someone who has that DIY spirit!

The Watersecure 12K pure sine inverter has an easy to use light up digital programming screen to change settings on the fly. It includes an option to charge batteries with a generator in a pinch. The inverter outputs BOTH 110V and 220V power, unlike other inverters on the market that only provide either or.

The solar and battery banks are expandable - as your needs change overtime add more power storage batteries or power generating panels!

FREE SHIPPING TO CONTINENTAL USA



Each BYOC WaterSecure package contains

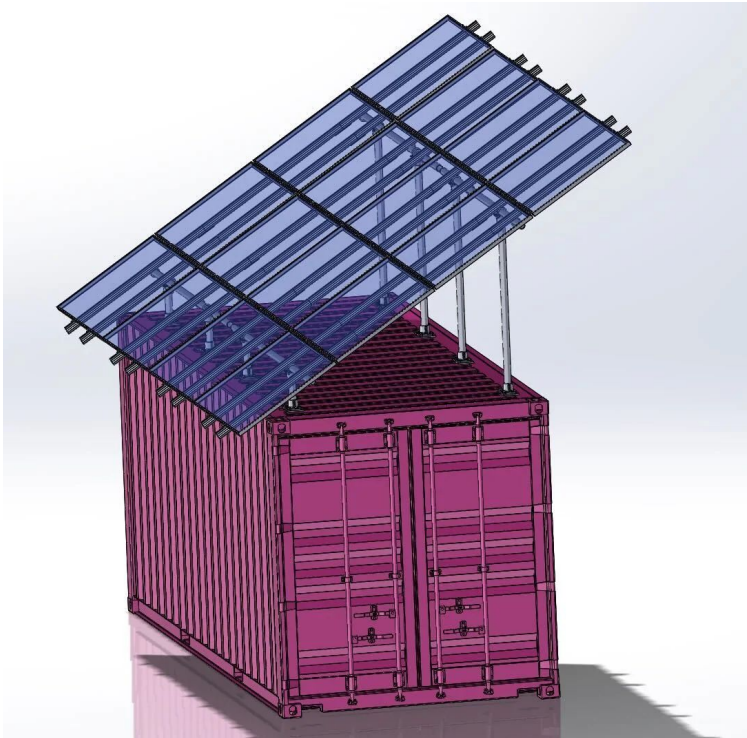
- VC4-HR2 Scalable Mount for mounting panels on roof of container
- Unistrut Wall Mounting for Watersecure
- Back40 375W Rugged Aluminum Framed Mono-Crystalline Solar Panels
- Solar Wires (2 x 50ft)
- DC Cut-off Switch
- 12K Watersecure Inverter
- MPPT Off-Grid Charge Controller
- Plug+Wiring for AC or 220V Generator backup (3 feet)
- Battery Wiring and Jumpers (2.5 feet)
- 160 Ah Deep Cycle GEL 12V Batteries
- NEMA L14-30 Plug for quick install
- Breaker/Fuse
- Detailed Full-Color Installation Manual
- 2 Year Comprehensive Warranty
- Phone/Email/Text Support from Friendly USA based

Customization Available. Customer provided 2" pipe for posts and beams.



Company Policy: Though perhaps uncommon, our company policy will never be to 'sell' customers on our products. We're engineers and problem solvers, and frankly, we wouldn't know how to hard sell if we wanted to! Instead, we will give you all the data to make an educated buying decision about your well pump, and provide the know-how to install a system yourself. We want to earn your business, and only if we have the right product for you. So ask us anything. No one is on commission and we are all here to help. We want to help find the right system for you and your family, or you and your plants, or you and your livestock!

Option 2: Quick Deploy Power Station!



Option 2 removes the guesswork and delivers a bare bones ready to go power station. RPS will pre-mount the Watersecure inverter, outlets, wiring and batteries inside the container. Perfect storage option to dock your tractors, side-by-sides and bikes. Imagine storing hunting equipment, pulling up for the season and having power ready for weeks of recreation. 375W panel setup only takes a couple hours!

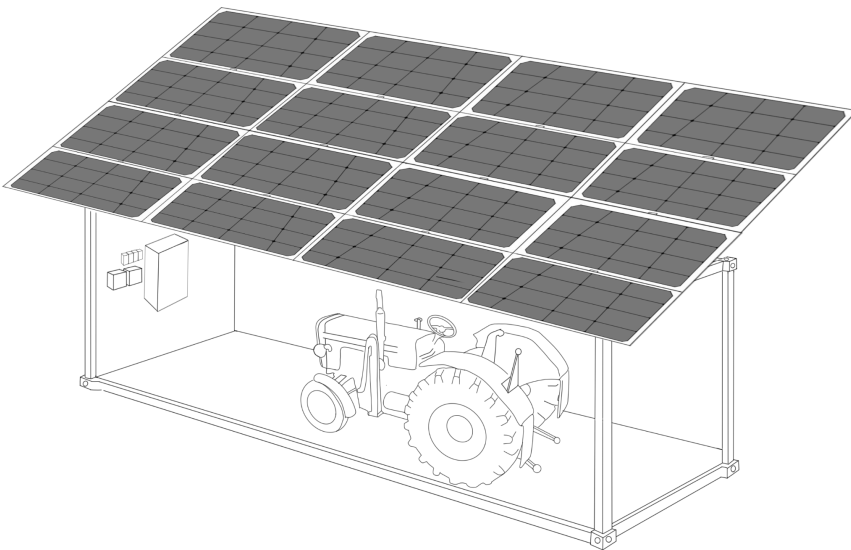
Each Quick Deploy package contains

- **All parts from Option 1**
- The Watersecure Inverter, wiring and batteries are pre-mounted and pre-wired internally in the container
- Pre-welded mounting brackets on container roof
- Exterior painted, optional interior paint
- 2 3/8" OD understructure piping pre-measured and cut to length for your latitude
- All parts are packed inside the container and shipped to your location!
- 110v and 220v Plugs & Receptacles Wired up Both Inside and Outside
- Mini Split AC/Heat (2 Size options)
- DC Disconnects
- Solar Input Connectors
- Ventilation Fans

Customization available upon request. Customer assembles Scalable Mount and Mounts Panels

Container Size Options

- 20 foot
 - Solar array size options: 3,000W, 6,000W
- 40 foot
 - Solar array size options: 3,000W, 6,000W or 12,000W
- See page – for different solar panel array and battery bank sizing options.



See interior dimensions of container on FAQ page to ensure your tractor will fit!

Option 3: Move in Ready

The ultimate solution for off-grid living or working! Each 20 foot or 40 foot container comes with a custom fitter solar panel array, see spec pages for different solar panel array and battery bank sizing options. 375W panel setup only takes a couple hours! Inside, a 12K Watersecure pure sine Inverter with solar charged battery bank. Windows and sliding door option are dual pane, gas-filled and framed with heavy-duty hardware to ensure security and longevity. Ideal for temporary construction sites, use and drop off again as you can pack the solar panels and mounting away inside the container during transport.

RPS is offering a Base Model the includes...

- **Everything from Option 2**
- Windows, insulation/sheetrock/textured walls, outside and inside painted (custom color choices)
- Inside and outside 110V and/or 220V outlets
- Door (choose from sliding glass or metal door)

Or the Fully Built Out DELUX model that includes...

- **Everything from the Base Model**
Then choose add-ons to suit your needs...
 - Air conditioning / heater
 - Multiple flooring options
 - Multiple interior wall options
 - Hookup for optional generator
 - Upgradable power systems
 - Multiple window options
 - Bars on windows for security
 - Multiple door options (metal man doors, sliding glass, etc...)
 - Multiple lighting options



20 foot Fully Built Out



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Option 3: Move in Ready



120V AND 240V OUTLETS PRE INSTALLED!



HEAVY DUTY CUSTOM PANEL INSTALLATION



EXAMPLE INTERIOR (fake vines optional!)

Small Office (two person) 20' ft container example



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Example Floor Plans

Large Office (four person) 40' ft container



Tiny Home 20' ft container



Tiny Home 40' ft container



	BYO-Container	Quick Deploy Off-Grid Container	Move-In-Ready Off-Grid Container
Container Type	Choose a kit to mount to a 20' or 40' shipping container already on your property	Choose 20ft or 40ft Shipping Container. Standard height & dimensions, No Custom, 10' or HQ	Choose 20ft or 40ft Shipping Container. Standard height & dimensions, No Custom, 10' or HQ
Color	n/a	Exterior: Your Choice from 10 Available Options	Exterior: Your Choice from 10 Available Options Interior: Your Choice from 5 Available options. 1 full coat of paint applied to taped sheetrock.
Solar, Battery, AC+DC Included	<p>Inverter WaterSecure 12K 12,000 Watt</p> <p>Solar+MPPT A. 3000 Watt Array B. 6000 Watt Array C. 12,000 Watt Array (40' Only) <i>Includes DC Disconnects</i></p> <p>Battery Bank A. 15,000 Watt-hours GEL B. 30,000 Watt Hours GEL (Add \$2000)</p>	<p>Inverter WaterSecure 12K 12,000 Watt</p> <p>Solar+MPPT A. 3000 Watt Array B. 6000 Watt Array</p> <p>Battery Bank A. 15,000 Watt-hours GEL B. 30,000 Watt Hours GEL (Add \$2000)</p> <p>Included: -110v and 220v Plugs & Receptacles Wired up Both Inside and Outside -DC Disconnects -Solar Input Connectors -Ventilation Fans</p>	<p>Inverter WaterSecure 12K 12,000 Watt</p> <p>Solar+MPPT A. 3000 Watt Array B. 6000 Watt Array C. 12,000 Watt Array (40' Only)</p> <p>Battery Bank A. 15,000 Watt-hours GEL B. 30,000 Watt Hours GEL (Add \$2000)</p> <p>Included: -110v and 220v Plugs & Receptacles Wired up Both Inside and Outside -DC Disconnects -Solar Input Connectors</p>
Solar Panel Mounting	Container Roof Mounting Brackets and Bolts (or weld if you prefer) + VC4-HR2 Scalable Mount (customer provided 2" pipe for posts and beams)	Container Roof Mounting Brackets Come welded on container. 2" Pipe cut to length and included Customer assembles Scalable Mount and Mounts Panels	Container Roof Mounting Brackets Come welded on container. 2" Pipe cut to length and included Customer assembles Scalable Mount and Mounts Panels
Air Conditioning / Heat		Mini Split AC/Heat 2 Size options	Mini Split AC/Heat 2 Size options
Interior Modifications	n/a	None	Optional Upgrades: Glass Windows (optional Bars) Locking Door (Metal or Sliding Glass) Interior Foam+Sheetrock Paneling Flooring Lights Electrical Outlets Blinds Furniture Assembly Cargo Doors (can be sheetrocked over or left to open)

FAQ

How will the container be delivered to my location? What about cost?

RPS delivers the container via trailer. Delivery is not included in the cost and transportation will be charged at actual quoted rates. Cost will be dependant on distance traveled, and calculated custom for your location. Estimate is \$2/mile per 20' and \$3/mile for 40', min \$1,000. We will put out for quote on request! Sometimes it's much lower.

Is there a waitlist for purchase or delivery?

Yes, due to popular demand and quality of workmanship, there is a waitlist for both the 20ft and 40ft solar containers. We'll give you an estimate on wait time and a heads up whenever your container moves into production.

How long does production take?

Approximately 30 days.

Is there a deposit required to reserve a solar container?

Yes, RPS requires a 50% deposit on all solar container purchases.

How does RPS source our containers?

RPS sources "one trip" containers (used for only a single trip overseas, very little wear, newer floors) and "watertight" containers retired after 10 years (may have some dents and welds but the container is watertight with a lot of life in it!). You have the option to choose which type of sourced container you'd like. RPS cleans, sanitizes and checks for any contaminants in the wood before moving containers into production. There is a price break on "Watertight" containers, Subtract \$2,000 from the total price for 20', and \$4,000 for 40'.

What's the warranty?

RPS offers a 2 Year warranty on the solar panels, solar panel roof mounting and entire Watersecure system (wiring, batteries, inverter).

What kind of batteries are included? What's the lifespan on the batteries?

RPS uses 160Ah, 12V VLRA GEL sealed batteries with operation lifetime up to 15 years and 1,350-1,550 cycles (50% DOD) before they lose only 40% of their capacity. Compare that to standard flooded lead acid batteries and you will see you are getting 3-4 times the lifetime for about the same cost.



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Solar sizing Options for 20 and 40 foot Solar Containers

	20 foot	20 foot	
	40 foot	40 foot	40 foot
System Solar Wattage	3,000W	6,000W	12,000W
Standard # of 160Ah batteries	8	8	16
Battery Watt Hours	15,000Wh (Upgrade to 30,000Wh for \$2,000)	15,000Wh (Upgrade to 30,000Wh for \$2,000)	30,000Wh
# of 375W solar panels	8	16	32
Inverter Size	12K pure sine wave	12K pure sine wave	12K pure sine wave

Expandable Power

Solar panel arrays and battery banks are expandable. For example, 20 foot containers can expand from 3,000W of solar up to 6,000W. 40 foot containers can expand from 3,000W up to 12,000W of solar in the future.

40 Foot Container Specs

Exterior dimensions:
40' length x 8' width x 8'6" height

Interior dimensions:
39'6" length x 7'9" width x 7' 10" height

Internal square footage:
285 sq feet

Weight:
Approx 8,000 lbs container

12K inverter: 145.5 lbs
160Ah battery: 106 lbs
375W solar panel: 43 lbs

20 Foot Container Dimensions

Exterior Dimensions:
20' long x 8' wide x 8' 6" high

Interior Dimensions;
19' 4" long x 7' 9" wide x 7' 10" high

Internal square footage:
145 sq ft

Weight:
Approx 5,000 lbs container

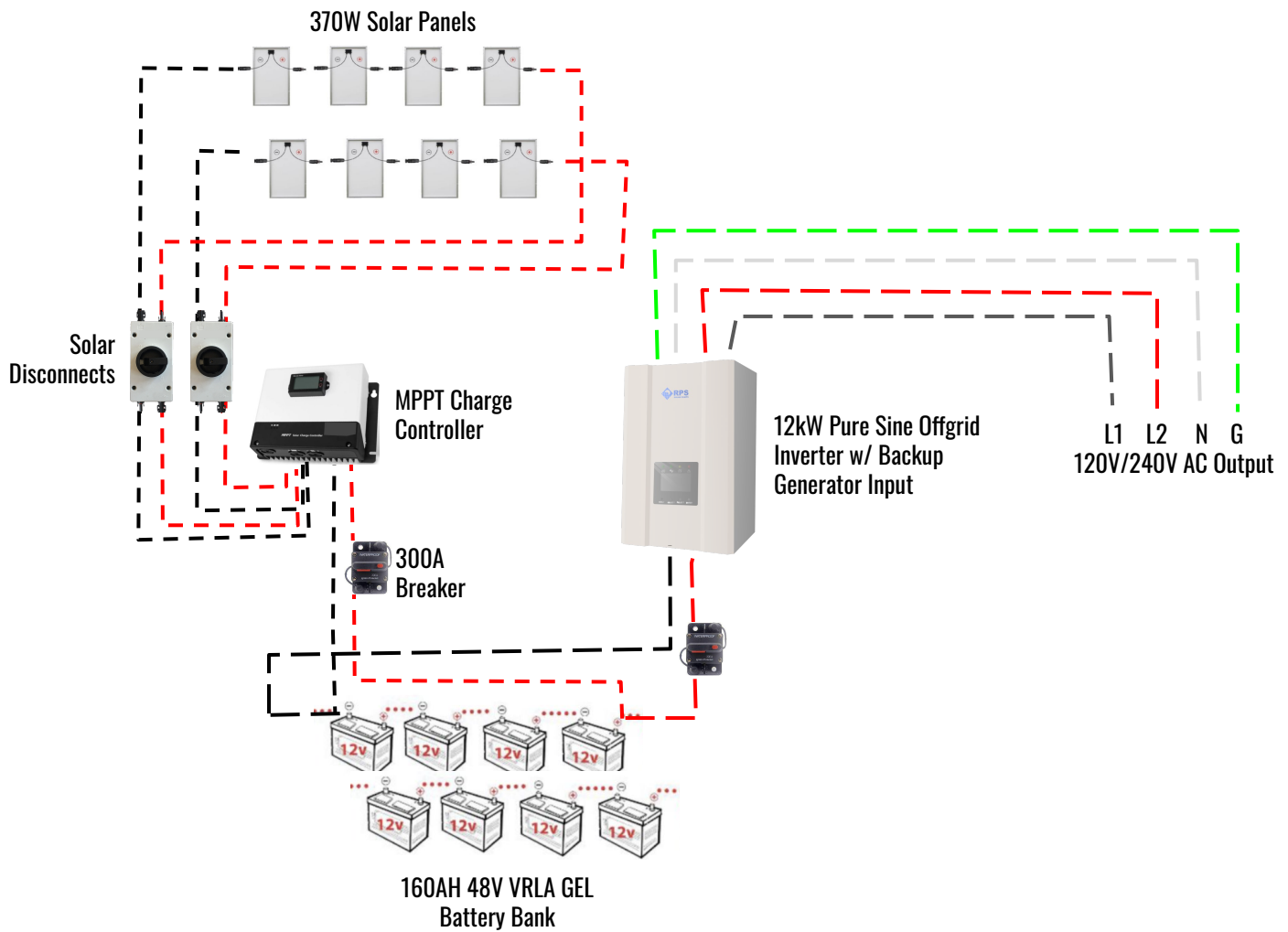
**Standard height & dimensions,
No Custom, 10' or High Cube**



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Electrical Diagram

(Base 3,000W System Shown)



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375W Mono SOLAR PANELS



**REMOTE
POWER
FOR FARMS,
RANCHES &
HOMESTEADS**



B40-M375H 375W Mono Solar Panel

Maximum Power	Pm	375 W
Open-Circuit Voltage	Voc	41.1V
Short-Circuit Current	Isc	11.6A
Maximum Power Voltage	Vmp	34.643V
Maximum Power Current	Imp	10.84A
Power Tolerance		0~+3%

All technical data at standard test condition
(E=1000W/m² Tc=25°C AM=1.5)

Maximum System Voltage	DC 1500V
Module Application	Class A
Nom Operating Cell Temp (NOCT)	47±2°C
Temperature Cycling Range	-40°C to +85°C
Weight	19.5kg / 43lbs
Dimensions	1755×1038×35mm 69.1"×40.9"×1.4"

Cell Technology Mono-Si
Company Name : **Back40 Solar**
Certified to UL 1703 **Made in Malaysia**



Deep Cycle GEL VRLA Batteries

The highest quality VLRA sealed GEL batteries with operation lifetime up to 15 years and 1,350-1,550 cycles (50% DOD) before they lose only 40% of their capacity. Compare that to standard flooded lead acid batteries and you will see you are getting 3-4 times the lifetime for about the same cost. Both the 55ah and 160Ah pack a punch yet are easy to carry and handle. Gone are the days of checking and filling batteries every few months and risks with battery acid spilling!

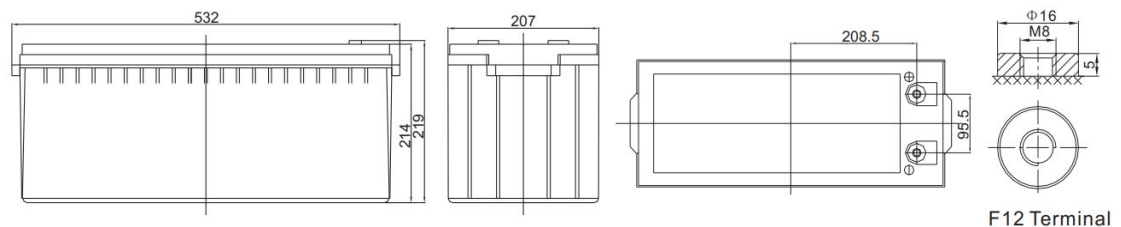
SPECIFICATIONS

	160Ah
Dimensions	20.9" x 8.15" 8.6" Height
Voltage	12V
Max Discharge Current	550A
Weight	106 lbs
Design Life	15 Years
Float Charge Voltage	13.6V - 13.8V
Cycle Use Voltage	14.2V - 14.4V
Normal Operating Temperature	25° C
Terminals: Female Thread with Washers/Bolt	M8 (F12)

The highest quality and longest lifetime lead acid batteries on the market today!

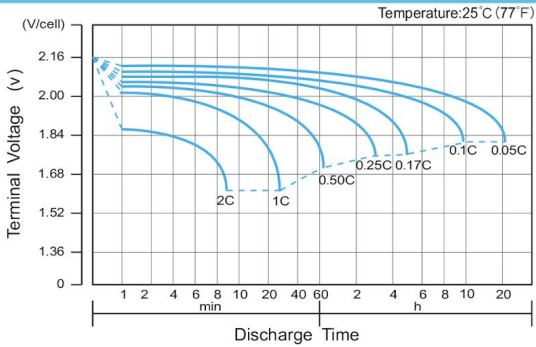


160Ah

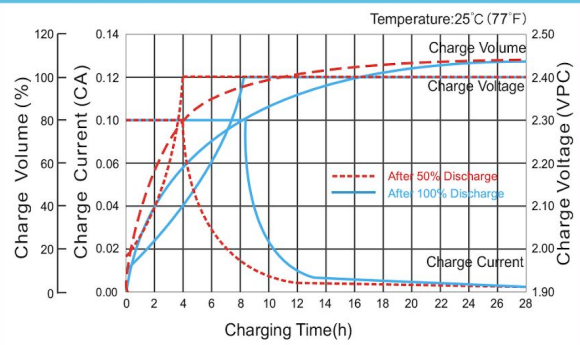


Deep Cycle VLRA Gel Batteries

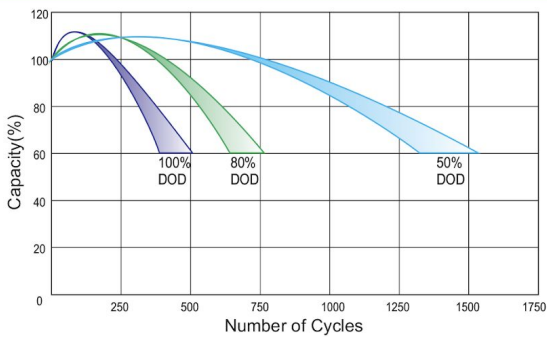
Discharge Characteristics Curve



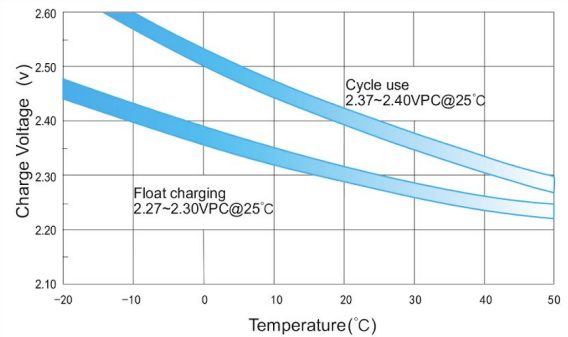
Charge Characteristic Curve for Cycle Use(IU)



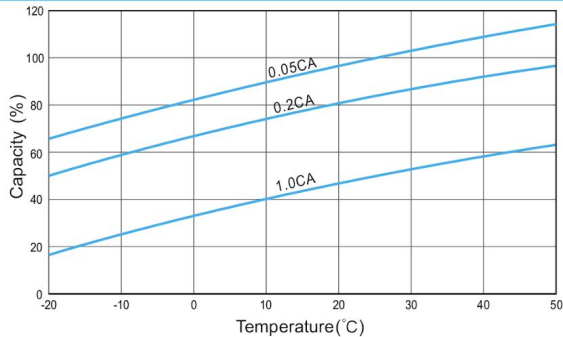
Cycle Life in Relation to Depth of Discharge



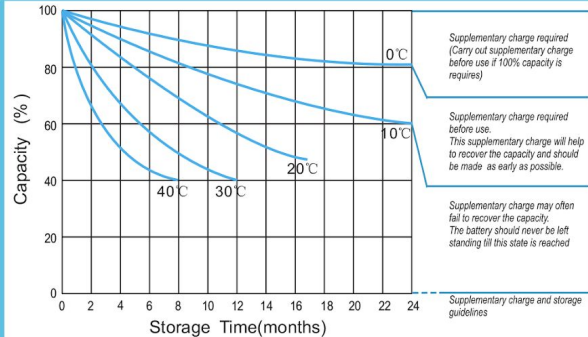
Relationship Between Charging Voltage and Temperature



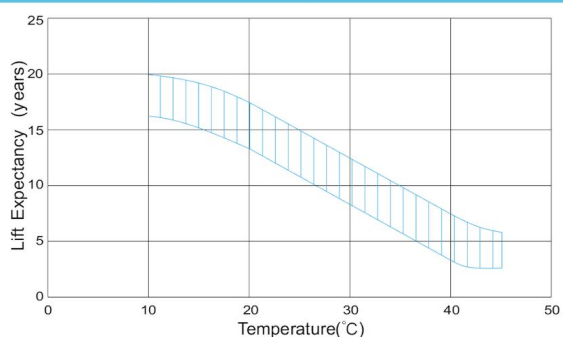
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

