

A COMPLETE GUIDE TO WATERSECURE™



RPS
SOLAR PUMPS®

RESILIENCE. AFFORDABILITY. POWER.

Ensure your family's Water Security when the grid goes down! RPS offers a low stress, all in one **WaterSecure™** kit that transforms your current grid-tied 110v or 220v Single Phase water pump into a solar powered water pump with a solar charged battery bank.

RPS engineered three sizes of Watersecure, the WS-3K, WS-6K and WS-12K, that deliver up to 3,000, 6,000 or 12,000 watts of pure sine power. Plus, power household appliances like internet routers, coffee makers, lights, TV's, home health equipment, fans, fridges*, freezers*, laundry machines* and AC units*.

Watersecure Kits are **EXPANDABLE**, meaning you can start with a couple of batteries and panels and purchase more at a later time as your needs change.

Choose from NINE System Variants...

Battery Bank: 24V(3K) or 48V(6K & 12K)

Solar Panels: 600W(3K), 800W, 1,200W, 1,600W, 2,400W

Sizing depends on the HP of your pump and power requirements of other appliances. Turn to **Page 5** for a short quiz on which Watersecure is right for you.

*Only compatible with WS-6K or WS-12K Kit

All WaterSecure™ kits contain:

- ◆ RPS 100W or 320W Rugged Aluminum Framed Mono-Crystalline Solar Panels
- ◆ Solar Wires (2 x 50ft)
- ◆ DC Cut-off Switch
- ◆ 3K, 6K or 12K Watersecure Inverter/Charger
- ◆ Plug+Wiring for AC or 220V Generator backup (3 feet)
- ◆ Battery Wiring and Jumpers (2.5 feet)
- ◆ 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 RPS engineers



We've created great in-depth videos on Watersecure demos and installation at...
[Youtube.com/RPSSolarPumps](https://www.youtube.com/RPSSolarPumps)

WIRING DIAGRAM

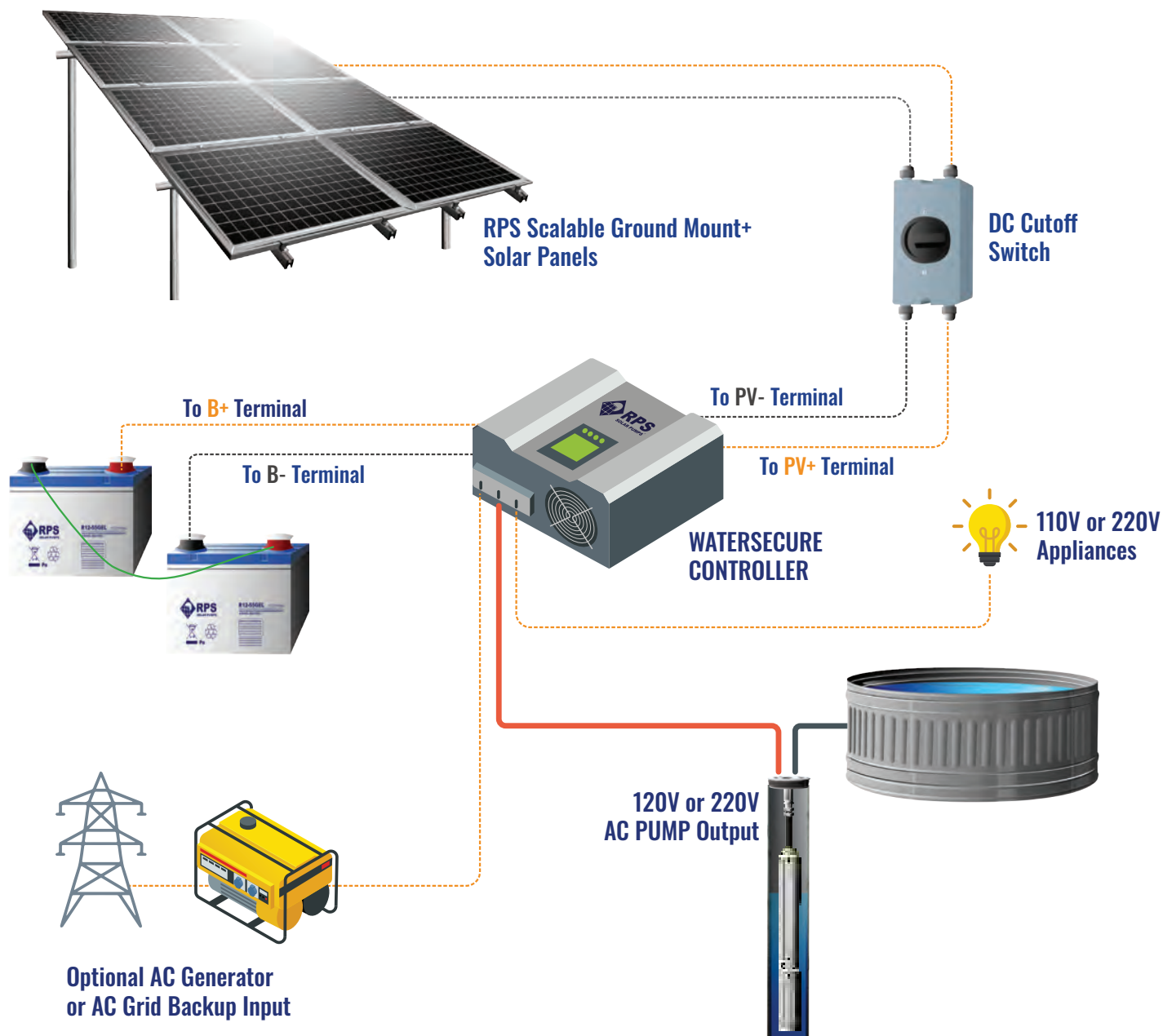
Overload Protection

Simple Troubleshooting

Easy-to-read LCD Display

MPPT Charge controller (40A, 60A)

Programmable Voltage, Current, Frequency & Intelligent Mode Features



MEMORABLE CUSTOMER SERVICE

Our famous customer support offers a direct line to talk with real, friendly humans here in the USA. Customers comment that our team has raised the standard for what to expect from a help line.

RPS engineers are available for questions, troubleshooting, or planning for installation. And you're not limited to one call, we want to make sure you continue getting great performance from our products.



We needed an off-grid solar backup for our home, barn and well. No power=no water=lots of problems. I did a lot of research and the RPS Watersecure 6K 1600 solved our problem for a 220v solar off grid system. Everyone at RPS is a pleasure to work with. It's as though they were right by my side as I did the install. All the parts are top notch made and fit perfectly. I took my time and started with the solar arrays and finished with the battery bank.

Be sure to follow the instructions as literally written and watch their videos first. When I was complete, I turned the system on and we have been off-grid since. I have the 6,000 watt inverter "brain" set for intelligent mode and it is also plugged into the grid. In the morning our very large irrigation system starts up, it eventually switches to grid power. After irrigating was over and the solar recharged, it switched back to battery and solar.

I am extremely happy with the system, the tech support, the quality of the components, the ease of install, and the fact that now we have water powered by the sun. Future plans are to put in a manual transfer switch to run some of the power to the house when not pumping water. Worth every penny.

- Steven in Nevada



CONTACT US



(888) 637-4493



support@ruralspowersystems.com

OUR SYSTEM

Just like your favorite gas powered generator is rated in watts, the WaterSecure™ uses a 3,000 watt, 6,000 watt, or 12,000 watt solar generator in the main control box. The controller makes DC power from sunlight and transforms it into AC 110/220V power, the same power you would get from the electric company! Power is stored in batteries until needed. More batteries means more storage, and more solar panels equates to faster recharge of batteries. Let's take an example of a Watersecure 6K-1200, which uses twelve 100W panels and four 160Ah, 12V batteries.



Volts x amps=Watts hours of Power

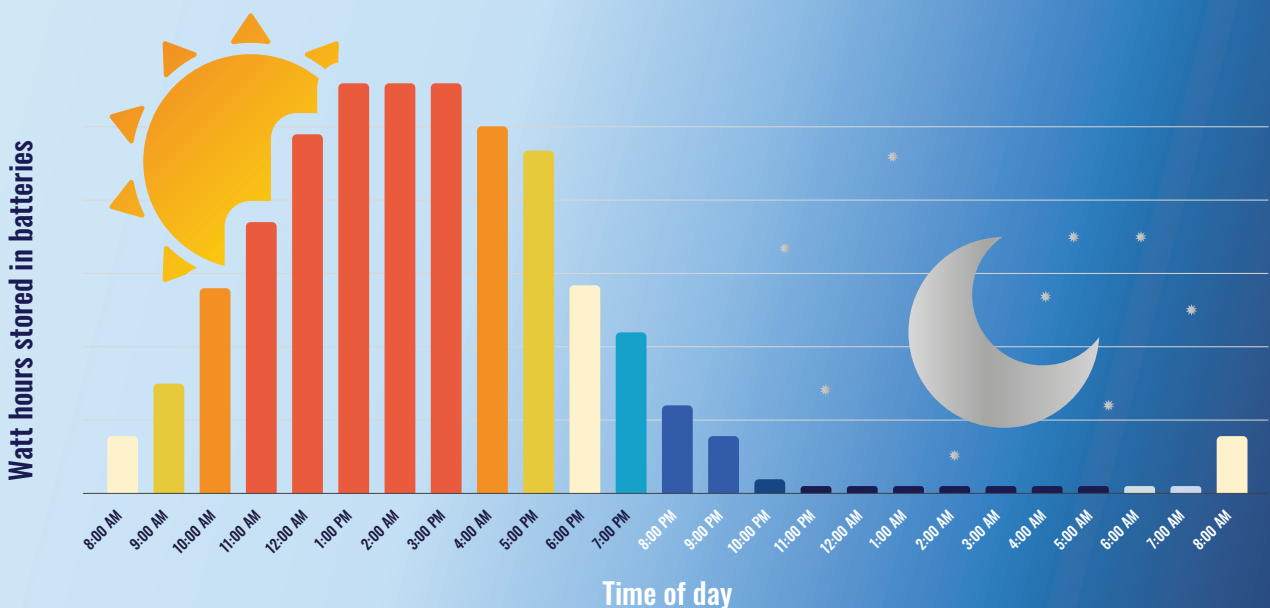
4 batteries x (160 Ah x 12V) = 7,680Wh of total stored energy



Up to 80% more

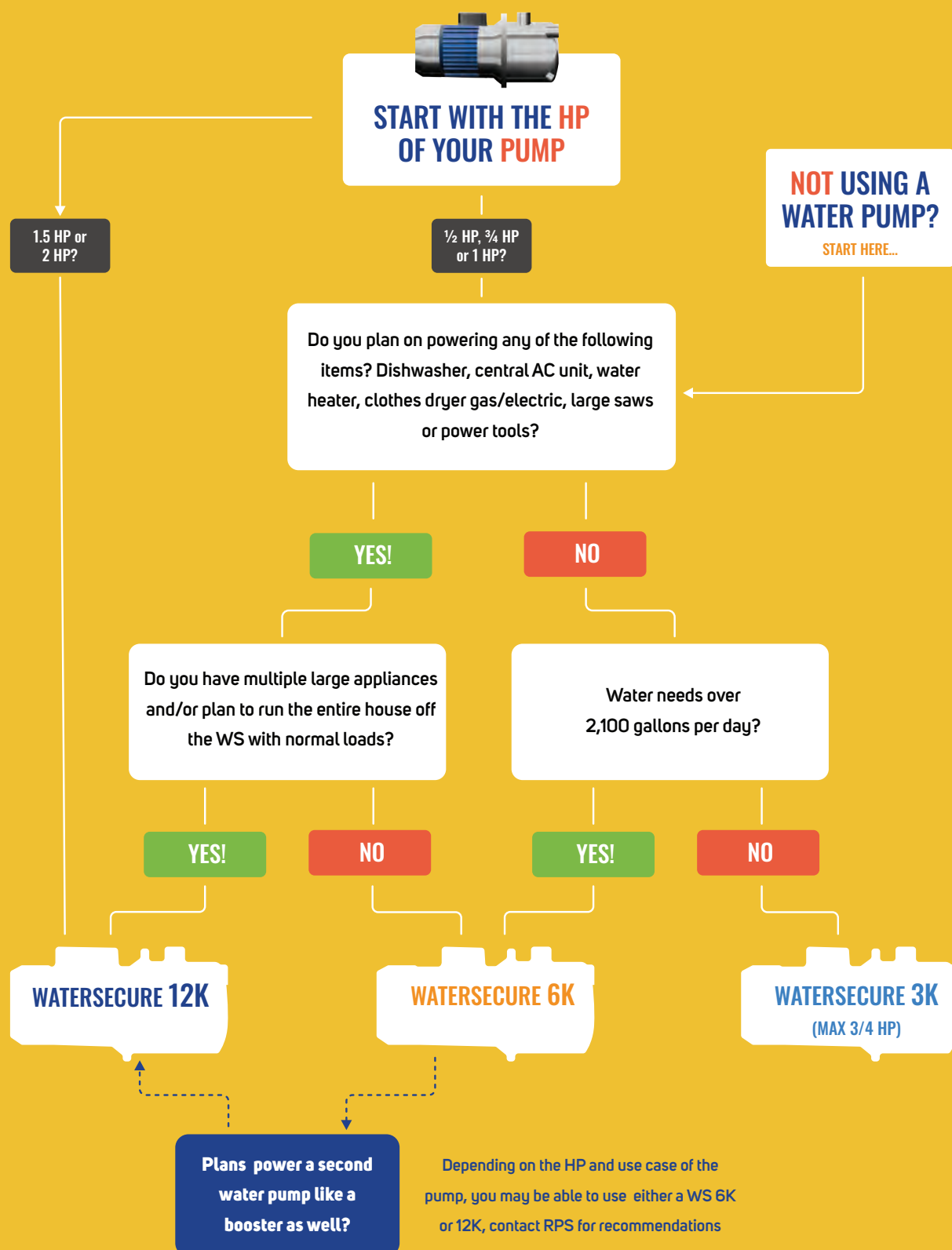
Charging batteries with solar is a near perfect conversion of accumulated solar to storage in batteries but inverting DC into AC power isn't a perfect conversion. With the batteries kept at the healthy depth of discharge and the minimal losses in this charging and inversion, usable power from this example battery bank would be roughly 4,150Wh. Still a good deal of power and during the daytime-you'll some extra as you are collecting more of it from the sun than the battery bank needs to charge. In fact, during the day you can run closer to 5,706Wh of stuff off of the WS 6K-1200. That's a 38% power production boost during daytime and what we call a **"SOLAR BONUS"**!

Our recommendation: accomplish your most energy intensive tasks during sunlight hours, and prudently use battery power at night.



RPS engineers conservatively estimate 5 hours of usable sunlight per day for the **Solar Bonus**, but this will vary depending on your location, weather, and time of year. Some of the remaining 19 hours will fall during off peak light hours or nighttime. Of course, you may end up receiving more than 5 hours!

WHICH WATERSECURE IS RIGHT FOR YOU?

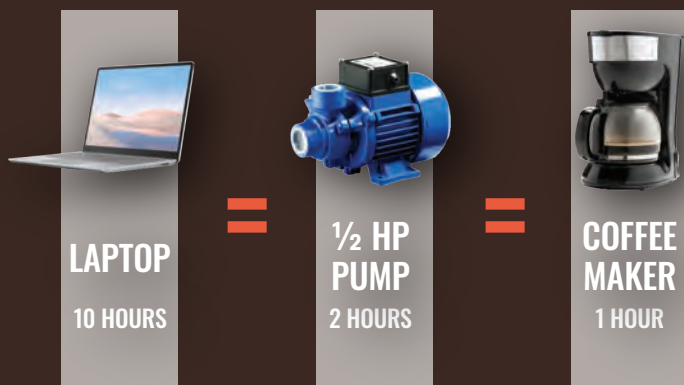


GET READY

Whether preparing for grid blackouts or betting on an unpredictable world, the ability to pull the entire property off-grid brings a certain peace of mind.

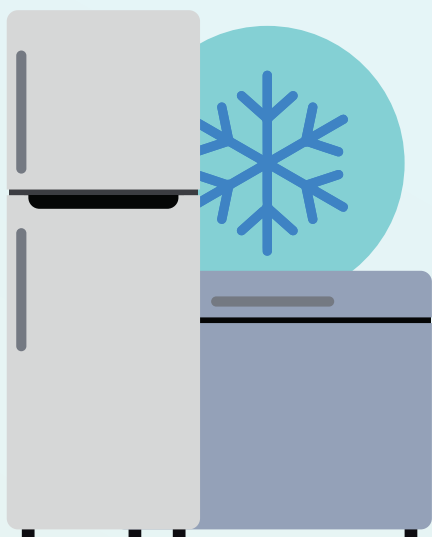
Watersecure adapts to your lifestyle! We've made some examples on the following pages of how someone could choose what to power. For example, if you power a coffee machine 1/2 hour each day (500W) instead of 1 hour (1,000W), then the 500W of energy saved can be used by something else - water your garden for another 1 Hour, or watch the big game on your laptop.

Choose How You Spend 1,000W



50-100 GALLONS

That's how much to budget per person, per day in your household. Just one hour of pumping water, assuming your pump produces 6 Gallons per minute, should provide 360 gallons - enough for a 3 or 4 person house!



As more power hungry appliances are plugged in at the same time, a larger Watersecure like a 6K or 12K is needed to handle the spike in power (Watts) upon startup. For example, if a water pump, AC unit and freezer were to simultaneously turn on, thier opertion requires an adequate surge rating that does not exceed the power output of the controller, **see page 15**. All of our Watersecure models can support **double their inverter rating for up to 10 seconds**, for example a WS-6K supports 12,000W. That's why a 6K and 12K may provide similar overall runtimes, but the 12K is the necessary choice to ensure that you aren't overwhelming the system with multiple, large appliances.

HOMESTEAD MINIMALIST

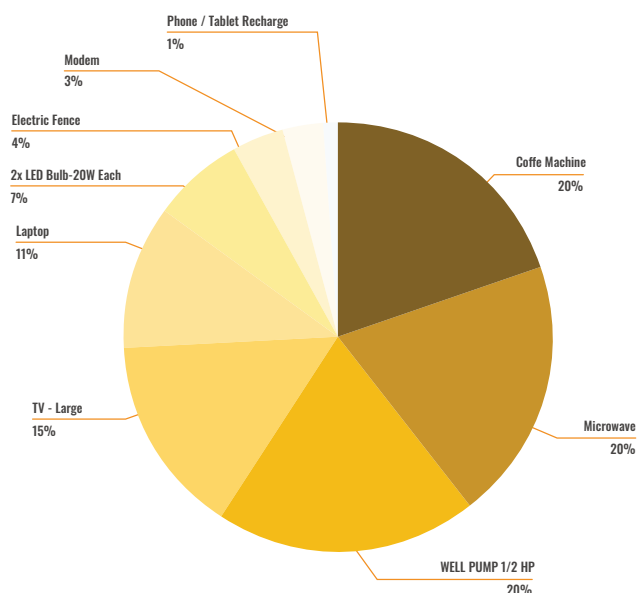
WATERSECURE 3K-600 (MAX 3/4 HP PUMP)



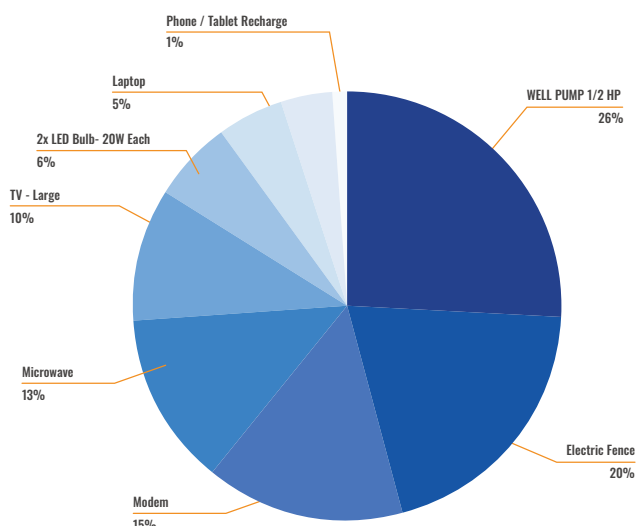
There are 24 hours in a day, and 5 of those hours fall during peak sun, also known as the "SOLAR BONUS", indicated by yellow columns. The remaining 19 hours fall during off-peak sun, early morning, late afternoon or night time, shown by the blue columns. Total watts available during off-peak is always lower, plan usage accordingly so your actual Wh/Day fall below that number! Appliances like a fridge run 24/7, 5 hours during the Solar Bonus and another 19 hours during off peak sun.

| Appliance | Appliance Watts | Hours of Daytime Usage "Solar Bonus" | Watts x Hours | Usage Off-Peak hours + Nighttime | Watts x Hours |
|--|-----------------|--------------------------------------|---------------|----------------------------------|---------------|
| Coffee Maker | 1,000 | 0.5 | 500 | 0 | 0 |
| Microwave | 1,000 | 0.5 | 500 | 0.25 | 250 |
| WELL PUMP 1/2 HP | 500 | 1 | 500 | 1 | 500 |
| Modem | 15 | 5 | 75 | 19 | 285 |
| TV - Large | 200 | 2 | 400 | 1 | 200 |
| Laptop | 100 | 3 | 300 | 1 | 100 |
| Phone / Tablet - Recharge | 5 | 5 | 25 | 5 | 25 |
| 2x LED Bulb - 20W Each | 40 | 5 | 200 | 3 | 120 |
| Electric Fence | 20 | 5 | 100 | 19 | 380 |
| Wh/Day (Amount of power actually used) | | | 2,600 Wh | | 1,860 Wh |
| Total Wh Available in Battery Bank | | | 2,800 Wh | | 2,075 Wh |

DAYTIME



NIGHTTIME



BLACKOUT SOLUTION

WATERSECURE 6K-1200 (MAX 1 HP PUMP)



12 x 100W
Solar Panels



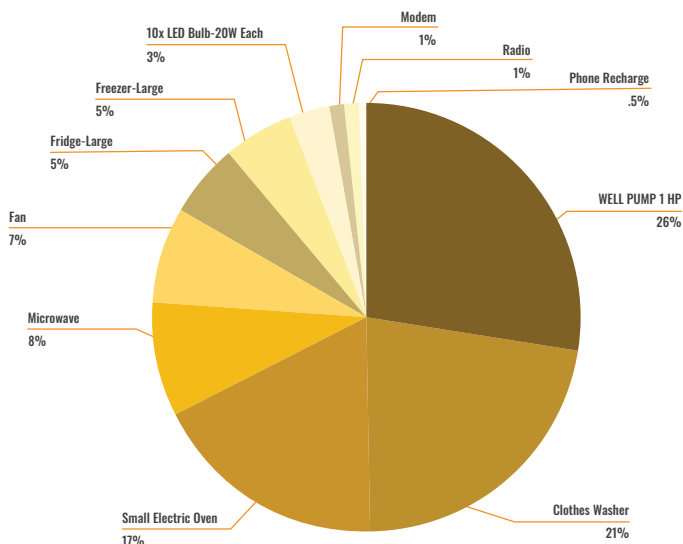
12 x 55Ah
RPS Batteries



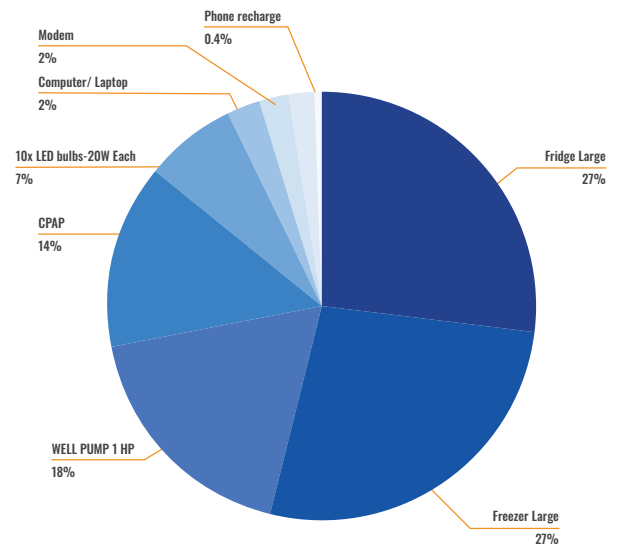
48V
Array

| Appliance | Appliance Watts | Hours of Daytime Usage "Solar Bonus" | Watts x Hours | Usage Off-Peak hours + Nighttime | Watts x Hours |
|------------------------------------|-----------------|--------------------------------------|---------------|----------------------------------|---------------|
| Fridge - Large | 60 | 5 | 300 | 19 | 1,140 |
| Freezer - Large | 60 | 5 | 300 | 19 | 1,140 |
| Microwave | 1,000 | 0.5 | 500 | 0 | 0 |
| Toaster Oven / Small Electric Oven | 1,000 | 1 | 1,000 | 0 | 0 |
| Fan | 150 | 3 | 450 | 0 | 0 |
| WELL PUMP 1 HP | 750 | 2 | 1,500 | 1 | 750 |
| Clothes Washer | 800 | 1.5 | 1,200 | 0 | 0 |
| CPAP | 60 | 0 | 0 | 10 | 600 |
| Modem | 15 | 5 | 75 | 4 | 60 |
| Radio | 20 | 4 | 80 | 0 | 0 |
| Laptop | 100 | 0 | 0 | 1 | 100 |
| Phone / Tablet - Recharge | 5 | 5 | 25 | 3 | 15 |
| 10x LED Bulb - 20W Each | 200 | 1 | 200 | 1.5 | 300 |
| Wh/Day | | | 5,630 Wh | | 4,105 Wh |
| Total Wh Available in Battery Bank | | | 5,706 Wh | | 4,147 Wh |

DAYTIME



NIGHTTIME



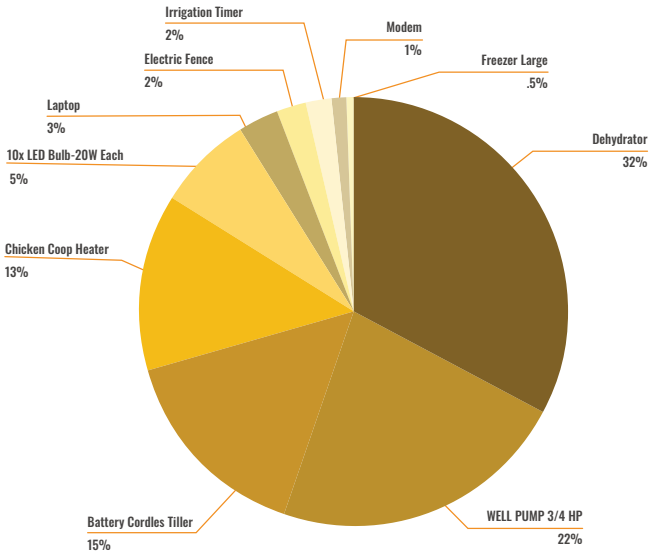
IRRIGATION EXPERT

WATERSECURE 6K-1600 (MAX 1 HP PUMP)

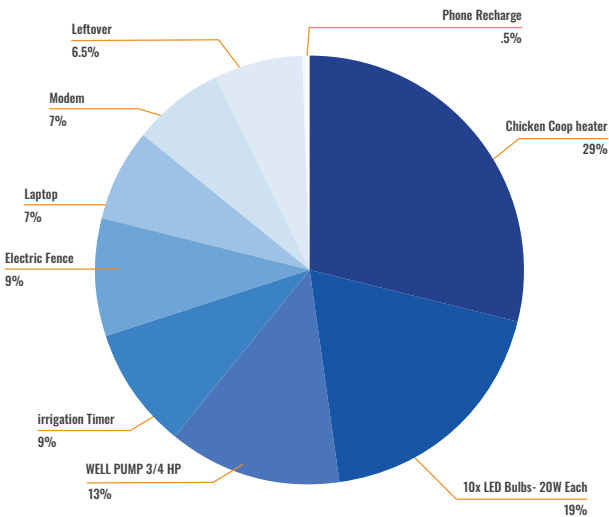


| Appliance | Appliance Watts | Hours of Daytime Usage "Solar Bonus" | Watts x Hours | Usage Off-Peak hours + Nighttime | Watts x Hours |
|--------------------------------------|-----------------|--------------------------------------|---------------|----------------------------------|---------------|
| Irrigation Timer + 4 solinoid valves | 20 | 5 | 100 | 19 | 380 |
| Chicken Coop Heater | 200 | 5 | 1,000 | 6 | 1200 |
| Electric Fence | 20 | 5 | 100 | 19 | 380 |
| WELL PUMP 3/4 HP | 550 | 4 | 3,000 | 1 | 550 |
| Battery for Cordless Tiller | 580 | 2 | 1,160 | 0 | 0 |
| Phone / Tablet - Recharge | 5 | 5 | 25 | 5 | 25 |
| Laptop | 100 | 2 | 200 | 3 | 300 |
| Modem | 15 | 5 | 75 | 19 | 285 |
| 10x LED Bulb - 20W Each | 200 | 2 | 200 | 4 | 800 |
| Dehydrator | 400 | 4 | 1,600 | 0 | 0 |
| Wh/Day | | | 7,110 Wh | | 4,120 Wh |
| Total Wh Available in Battery Bank | | | 7,512 Wh | | 4,147 Wh |

DAYTIME



NIGHTTIME

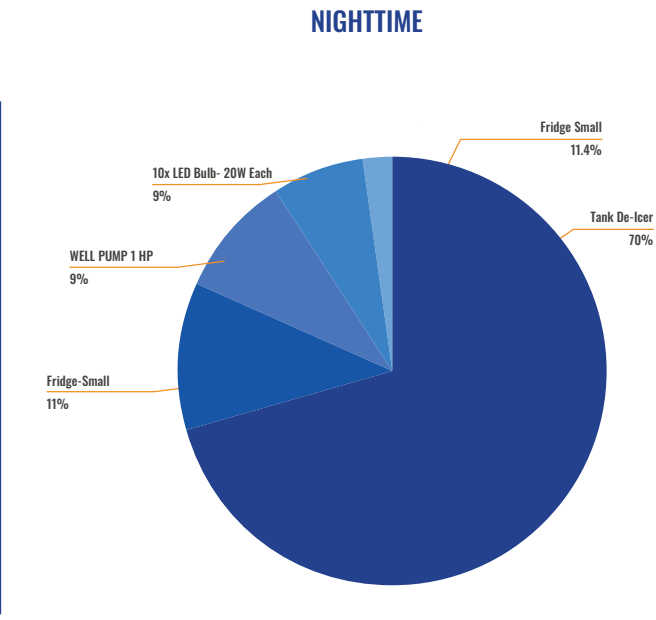
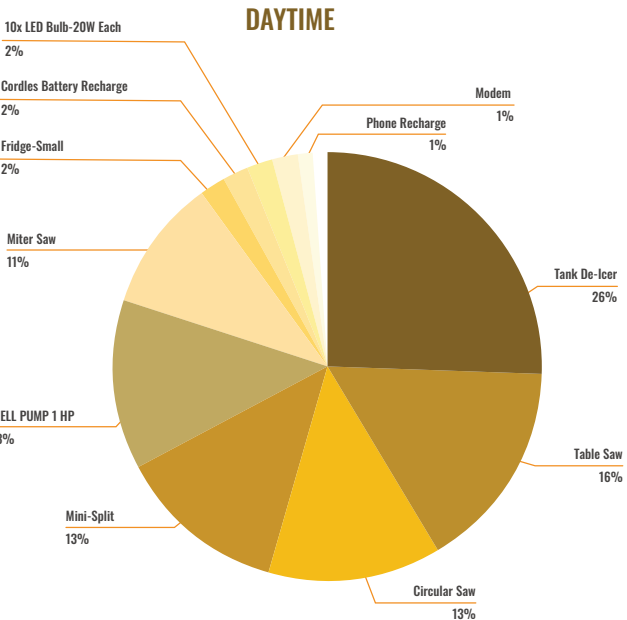


OFF-GRID CONSTRUCTION

WATERSECURE 6K-2400 (MAX 1 HP PUMP)



| Appliance | Appliance Watts | Hours of Daytime Usage "Solar Bonus" | Watts x Hours | Usage Off-Peak hours+ Nighttime | Watts x Hours |
|------------------------------------|-----------------|--------------------------------------|---------------|---------------------------------|---------------|
| Fridge - Small | 50 | 5 | 250 | 19 | 950 |
| Mini Split AC/HEAT | 500 | 3 | 1,500 | 0 | 0 |
| WELL PUMP 1 HP | 750 | 2 | 1,500 | 1 | 750 |
| Circular Saw | 1,200 | 1.25 | 1,500 | 0 | 0 |
| Miter Saw | 840 | 1.5 | 1,260 | 0 | 0 |
| Table Saw | 1,800 | 1 | 1,800 | 0 | 0 |
| Cordless Tool Battery Recharge | 50 | 5 | 250 | 0 | 0 |
| Modem | 15 | 5 | 75 | 0 | 0 |
| Phone / Tablet - Recharge | 5 | 5 | 25 | 0 | 0 |
| 10x LED Bulb - 20W Each | 200 | 1 | 200 | 3 | 600 |
| Tank De-Icer | 1,000 | 3 | 3,000 | 6 | 6,000 |
| Wh/Day | | | 11,360 Wh | | 8,300 Wh |
| Total Wh Available in Battery Bank | | | 11,532 Wh | | 8,554 Wh |



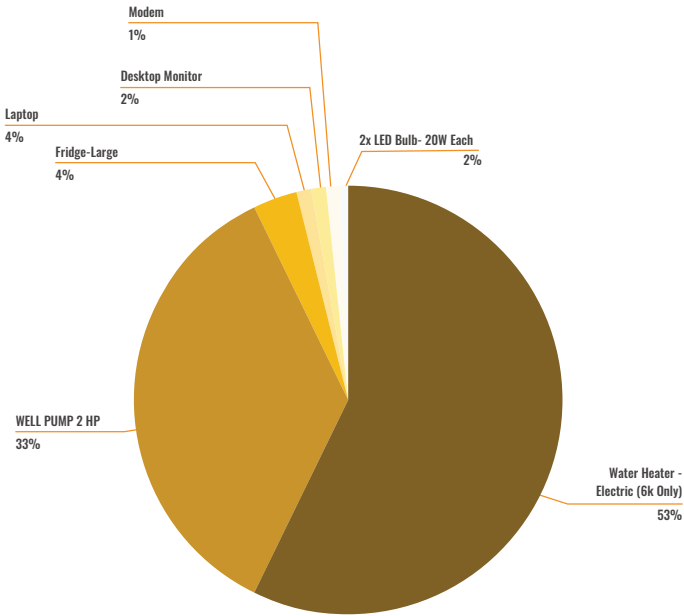
HOT WATER & 2 HP PUMP

WATERSECURE 12K-1600 (MAX 2 HP PUMP)

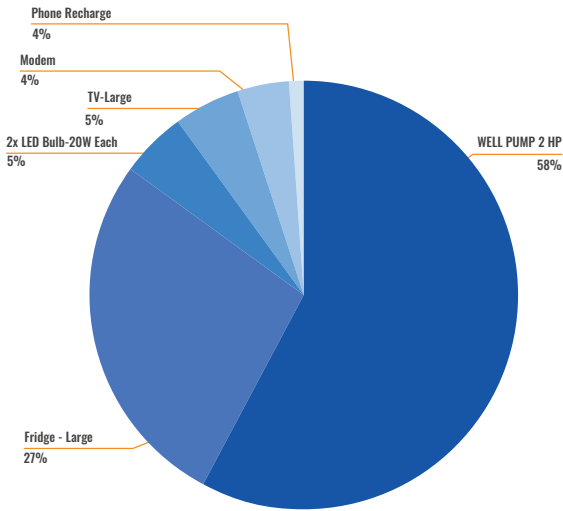


| Appliance | Appliance Watts | Hours of Daytime Usage "Solar Bonus") | Watts x Hours | Usage Off-Peak hours+ Nighttime | Watts x Hours |
|------------------------------------|-----------------|---------------------------------------|---------------|---------------------------------|---------------|
| Fridge - Large | 60 | 5 | 300 | 19 | 1,140 |
| Water Heater - Electric (6K Only) | 4,000 | 1 | 4,000 | 0 | 0 |
| 2 HP WELL PUMP | 2,500 | 1 | 2,500 | 1 | 2,500 |
| Modem | 15 | 5 | 75 | 12 | 180 |
| Radio | 20 | 3 | 60 | 0 | 0 |
| TV - Large | 200 | 0 | 0 | 1 | 200 |
| Laptop | 150 | 2 | 300 | 0 | 0 |
| Desktop Monitor | 100 | 2 | 200 | 0 | 0 |
| Phone / Tablet - Recharge | 5 | 5 | 25 | 5 | 25 |
| 2x LED Bulb - 20W Each | 40 | 1.5 | 60 | 5 | 200 |
| Wh/Day | | | 7,520 Wh | | 4,245 Wh |
| Total Wh Available in Battery Bank | | | 7,525 Wh | | 4,277 Wh |

DAYTIME



NIGHTTIME



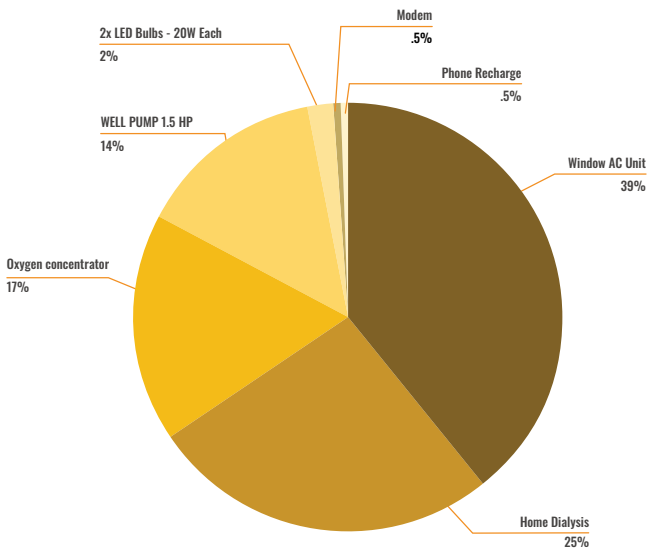
HEALTH ASSURANCE

WATERSECURE 12K-2400 (MAX 2 HP PUMP)

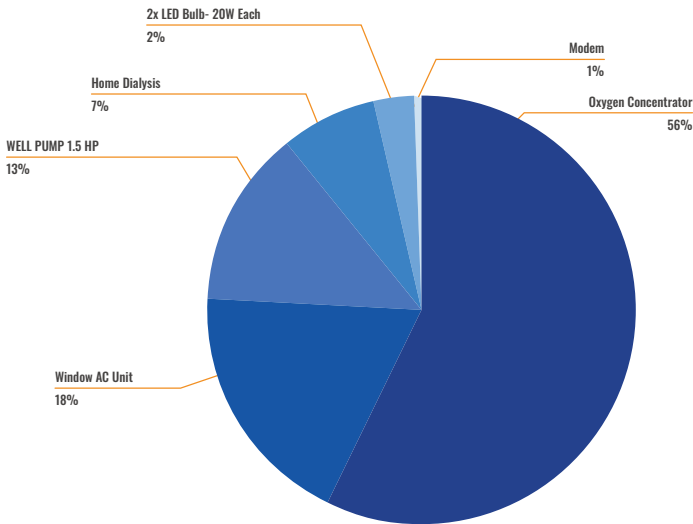


| Appliance | Appliance Watts | Hours of Daytime Usage "Solar Bonus" | Watts x Hours | Usage Off-Peak hours+ Nighttime | Watts x Hours |
|------------------------------------|-----------------|--------------------------------------|---------------|---------------------------------|---------------|
| Window AC Unit | 1,500 | 3 | 4,500 | 1 | 1,500 |
| 1.5 HP WELL PUMP | 1,100 | 1.5 | 1,650 | 1 | 1,100 |
| Home Dialysis | 600 | 5 | 3,000 | 1 | 600 |
| Oxygen Concentrator | 400 | 5 | 2,000 | 12 | 4,800 |
| Modem | 15 | 3 | 45 | 8 | 120 |
| Phone / Tablet - Recharge | 5 | 4 | 20 | 3 | 15 |
| 2x LED Bulb - 20W Each | 40 | 5 | 200 | 6 | 240 |
| Wh/Day | | | 11,415 Wh | | 8,375 Wh |
| Total Wh Available in Battery Bank | | | 11,530 Wh | | 8,555 Wh |

DAYTIME



NIGHTTIME



DIY WATERSECURE BUDGET

Take a walk around your property to look for spec stickers found on the back of appliances, see picture to the right. To calcualte the number of Watts an appliance consumes per hour(“Appliance Watts”), locate Voltage (may be listed as VAC, Rating) and Amps (other names include “Rated Current” or “Max Amperage”). Then, plug Amps and Volts into the below equation...

Power (Appliance Watt) = Volts x Amps
Example: Fridge 115W = 115 x 1

INSIGNIA

CHEST FREEZER
HOUSEHOLD FREEZER

| | |
|--------------------|------------|
| Model/Modèle: | NS-CZ35WH9 |
| Capacity/Capacité: | 3.5 cu.ft |
| Voltage/Tension: | 115V~/60Hz |
| Amps/le rsap: | 1.0 A |

| Appliance Name | Appliance Watts | Appliance Watts x Daytime Hours | Usage Daytime (up to 5 hours) "Solar Bonus" | Appliance Watts x Off-Peak Hours | Usage Off-Peak Sun Hours+ Nighttime |
|-----------------|-----------------|---------------------------------|---|----------------------------------|-------------------------------------|
| Example: Fridge | 115W | 115W x 5 hours | 575 Wh | 115W x 19 hours | 2,185 Wh |
| | | | | | |
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| Wh/Day | | | | | |

If you’re still wondering which WaterSecure™ system is right for you, take a picture of this page and send to support@rpssolarpumps.com with your contact information. One of our specialists will reach out with a recommendation and you’ll even receive lower internal pricing for double checking sizing!

BUYING A WHOLE HOUSE GENERATOR VS WATERSECURE



Everytime storm, outage or emergency happens you'll need to anticipate cost of fuel. WaterSecure™ is a one time upfront cost that solves uncertainty



Generators emit carbon monoxide, harmful to breath in and can't be placed inside. WaterSecure module and sealed batteries can be placed inside the home



May be difficult to find gas in an emergency or shortage situation. Gas prices fluctuate, most likely more expensive in the future due to surge pricing and inflation



WaterSecure™ is also compatible with generator or AC Grid backup if needed!



RPS batteries last 1,550 cycles, about 15 years. Solar panels last 25+ years.

STRETCH YOUR DOLLAR WITH THE SUN

| | Generator Cost | Fuel \$ per gallon | Gallons Per Day Used | Cost per 24Hrs | Cost per Week | Total Cost + 1 Week Storm | 10th - 1 week storm |
|------------------------------------|----------------|--------------------|----------------------|----------------|---------------|---------------------------|---------------------|
| 24kW Whole House Generator PROPANE | \$5,000 | \$2.50 | 84 | \$210 | \$1,470 | \$6,470 | \$19,700 |
| 6kW Honda Generator GAS | \$3,000 | \$3.50 | 18 | \$63 | \$441 | \$3,441 | \$7,410 |
| Watersecure 6k-1600 | \$6,499 | \$0 | 0 | 0 | 0 | \$6,499 | \$6,499 |

| | | WS 3K | WS 6K | WS 12K |
|------------------------|-----------------------------------|---|------------------------|---------------|
| AC Input | Input Voltage Waveform | Pure Sine (utility or generator) | | |
| | Nominal Input Voltage | 230VAC | | |
| | Low Line Disconnect | 184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac | | |
| | Low Line Reconnect | 194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac | | |
| | High Line Disconnect | 263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac | | |
| | Max AC Input Voltage | 230Vac for Max270Vac | | |
| AC Charger | Frequency | 50Hz:41-54Hz, 60Hz:51-64Hz | | |
| | Nominal Charge Current | 20A/35A/50A/70A (5 stages adjustable charging current) | | |
| | Over Charge Protection | Bat.V≥31.0VDC for 24V battery, Beep Pattern 0.5s every 1s Bat.V≥62.0VDC for 48V 0.5s every 1s & fault after 60s | | |
| Solar Charger | Rated Charge Current | 60A | | |
| | PV Input Voltage range | 30VDC-55VDC for 24VDC 60-110VDC for 48V | | |
| | Max Solar Input (Watts) | 1600w | 2800w | 2800w |
| | Max.PV open circuit array voltage | 24V for 55VDC, 48V for 110VDC | | |
| | Charger mode | MPPT | | |
| | PV Low Voltage Reconnect | PV≥Bat.V=+3V | | |
| | PV Low Voltage Disconnect | PV≤Bat.V | | |
| | Efficiency | ≥97% | | |
| | | | | |
| Charger | Nominal Charger Current | 20A/35A/50A/70A (According to the inverter model), adjustable 5 stages charging current | | |
| | Over Charge Protection | Bat.V≥15.5VDC/31VDC/62VDC,beeps 0.5s every 1s & fault after 60s | | |
| Efficiency | Efficiency (Battery Mode) | >87% | | |
| | Efficiency (Line Mode) | >98% | | |
| Battery Voltage | Nominal DC Input Voltage | 24VDC | 48VDC | |
| | Low Battery Alarm | 21VDC±0.6VDC for 24VDC | 42VDC±1.2VDC for 48VDC | |
| | Low DC input shut-down | 20VDC±0.6VDC for 24VDC | 40VDC±1.2VDC for 48VDC | |
| | High DC input Alarm & Fault | 32VDC±0.6VDC for 24VDC | 64VDC±1.2VDC for 48VDC | |
| | | | | |
| Transfer Time | AC to DC | 20ms(max) | | |
| | DC to AC | 15ms(max) | | |
| System | | 100%<load<150%, beeps 0.5s every 1s, and Fault after 60s off the output, | | |
| Parameter | Overload Protection | load>150% beeps 0.5s every 1s, and Fault after 20s | | |
| | Output Short Circuit Protection | Current limit (Fault after 10s) | | |
| | Surge Rating (10s) | 1:2(VA) | | |
| | Power Saver Mode | Load≤25W Enabled by default | | |
| | Protections | Low battery, over charging, overload, over temp | | |
| | Indicators | LED+LCD Display | | |
| General Specifications | Operating Temperature Range | -13°C to 40°C | | |
| | Vs Storage | -15°C~60°C | | |
| | Operation humidity | 5% to 95%(non-condensing) | | |
| | Audible Noise | 60dB max | | |
| | Cooling | Forced air, variable speed fan | | |
| | Dimension (L*W*H) | 480*336*190mm | 530*400*190mm | 627*416*204mm |
| | Net Weight (kg) | 28.0kg | 39.0kg | 66.5kg |

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

| | 55Ah | 160Ah |
|---|------------------------------|------------------------------|
| Dimensions | 9.02" x 5.43" 8.5" Height | 20.9" x 8.15" 8.6" Height |
| Voltage | 12V | 12V |
| Max Discharge Current | 1600A | 550A |
| Weight | 37 lbs | 106 lbs |
| Design Life | 15 Years | 15 Years |
| Float Charge Voltage | 13.6V - 13.8V | 13.6V - 13.8V |
| Cycle Use Voltage | 14.2V - 14.4V | 14.2V - 14.4V |
| Normal Operating Temperature | 25° C | 25° C |
| Terminals: Female Thread with Washers/Bolt | M6 (F11) | M8 (F12) |

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



ISO 9001



ISO 14001

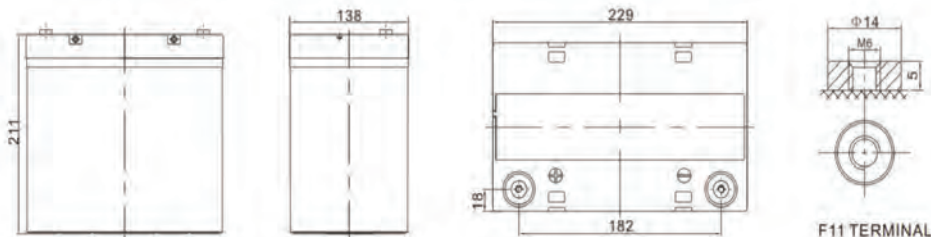


OHSAS 18001

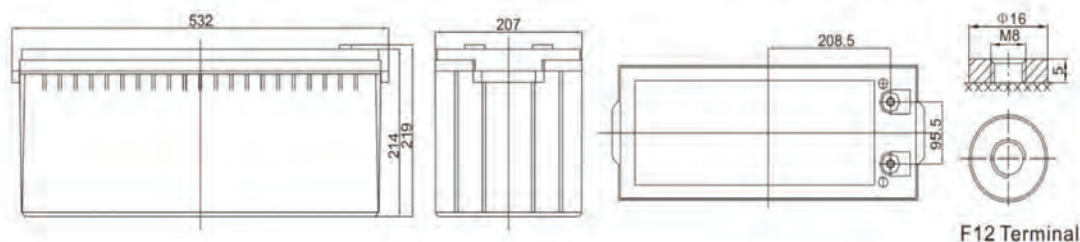


MH 28539

55Ah



160Ah



RURAL POWER SYSTEMS



ruralpowersystems.com



support@ruralpowersystems.com



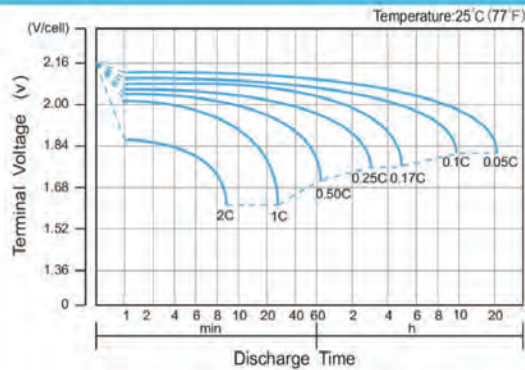
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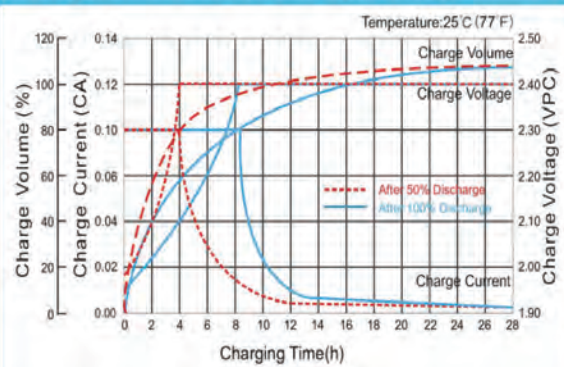
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Deep Cycle VLRA Gel Batteries

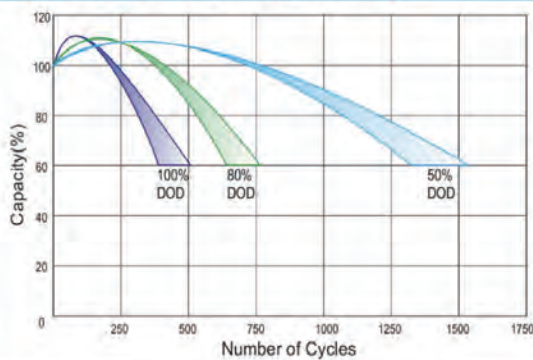
Discharge Characteristics Curve



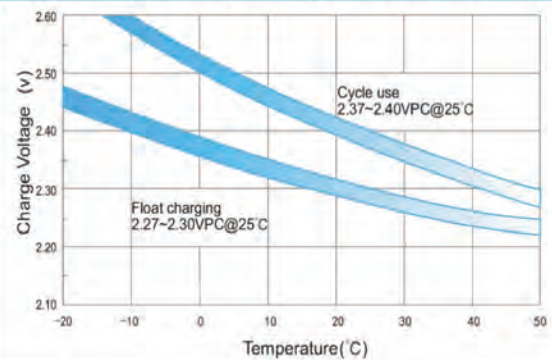
Charge Characteristic Curve for Cycle Use(IU)



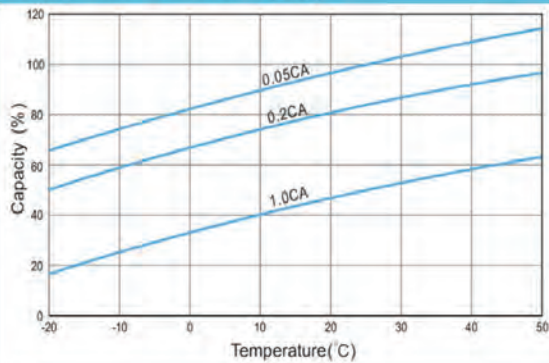
Cycle Life in Relation to Depth of Discharge



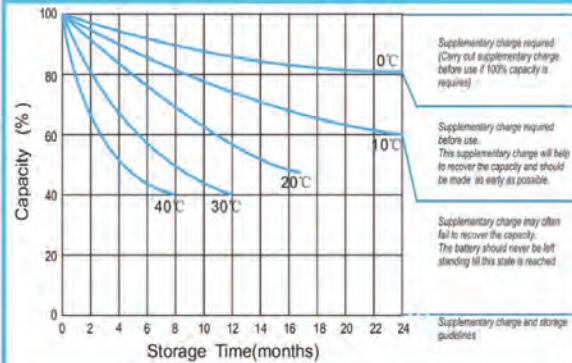
Relationship Between Charging Voltage and Temperature



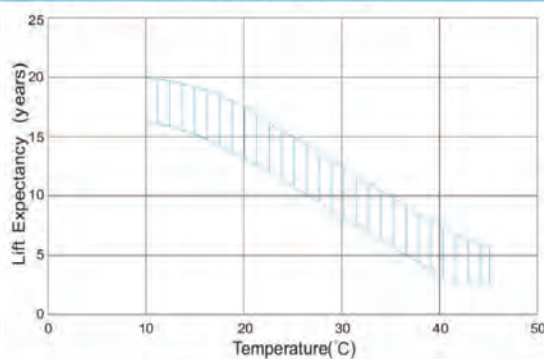
Temperature Effects on Capacity



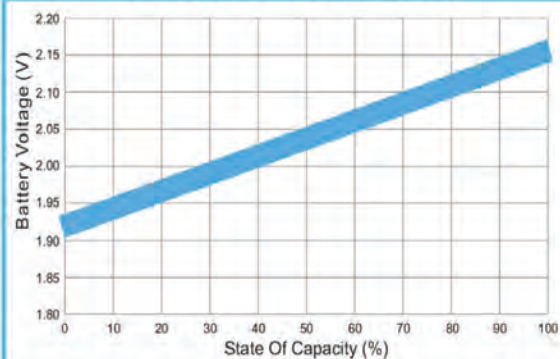
Storage Characteristics



Effect of Temperature on Long Term Life



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





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