Hiawatha Parks and Recreation

To:	Park and Recreation Commission
CC:	Mayor and City Council
From:	Kelly Willadsen, Park and Recreation Director
Date:	March 14, 2017
Re:	Park and Recreation Report

Business:

- **Amateur Radio Field Day June 23rd – 25th, 2017:** ARRL Field Day is the most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations. Field Day is an education event that is self sufficient and teaches Amateurs to operate in abnormal situations in case of emergency instances. June 23-25th a local Amateur Group in the Hiawatha/Cedar Rapids area would like to use Clark Park as a designated location. With that said it would require that the park stay open 24 hours, past our 10PM curfew. There would be 24 hours shifts that these Amateurs would cover to connect with as many stations as possible that weekend (the whole objective of the event). The park would still be open to the public besides the disc golf course. They would need to set up portable antennas that would be between 30-40ft high. This group carries insurance and is very self efficient. This year the Hiawatha Fire Department will not be involved so we will be asking for a $1,000.00 refundable damage deposit along with the Clark Pavilion Rental. I would like your approval for this event to take place in the park on June 23-25th and to extend park hours for the length of this event. Attached you will see the memo with further details.

- **Kona requested by the Arc for Sunday Fun Day event on September 17th, 2017:** The Arc of East Central Iowa would like to request that Kona Ice of Cedar Rapids be onsite at their annual Sunday Fun Day event on Sunday, September 17th, 2017 from 1-3pm. They would like to provide a treat that is sugar, gluten and nut free which Kona Ice provides. The Arc works with developmental disabilities and people that need to follow strict dietary guidelines. They have already rented a park pavilion for their event. Kona would only be able to serve to the Arc's event guests. Request Attached.

- **HKL request to install solar panel on concession stand:**
  The Hiawatha Kids League has applied for a grant through Rockwell Collins to acquire a small solar panel device and power supply with the intent to install on the Guthridge Park concession stand. This would power the refrigeration units, lighting and popcorn machine. HKL will find out if the grant is approved on April 21st. My concerns with this project are that they use the concession stand for about three months out of the year and we cannot guarantee that there will not be any damage done by park

users. They currently pay on average about $300.00 per month during the usage of the concession stand. They will not see a cost savings right away but over time.

Reports:

- **Kids Movie Night:** March 10th will be the next kids movie night featuring the Secret Life of Pets. This will be the last spring movie night until fall. Movie Starts at 6:30pm.
- **Taste of the Tropics:** Learn how to transform fresh ingredients into delicious meals. This hands on class will show you how to work with fresh citrus zest and ginger. We will make 2 recipes for you to sample. We will make a cake in the microwave and a healthy appetizer. Bring your own drink. Registrations due by April 3rd. April 17th at 6pm in the Community Center.
- **Pinterest Party Cork n Craft:** Five ladies made a state of Iowa string art on March 7th in the Community Center. Our next Pinterest Party takes place in June and will be geometric canvas art. $25 6PM June 6th.
- **Zumba:** Join us in the Hiawatha Community Center to try something new and burn some calories too! Brooke Lenz, Zumba certified instructor, will get you in the groove as you dance for 30 minutes and have some fun! Come try it out for FREE! March 9 and April 13 at 5:30-6:00pm in the Community Center.
- **Candlelight Yoga:** February Candlelight Yoga had 5 in attendance. Come try it for yourself in the Community Center at 6:45PM on March 30th or April 27th or both!
- **Kids in the Kitchen:** Registration was full! Children made their own pizza and decorated a giant cookie all while learning kitchen safety. Children got to take home their very own pizza stone for future use! April 12th in the Community Center. $25 registration fee.
- **Super Sitters:** Registration is full! This is our third year hosting Super Sitters in the Hiawatha Community Center. Michelle Altimaier from Mercy Medical Center and her assistant will be teaching a certified babysitter class through the American Red Cross. This takes place on March 15th from 8:30am to 2:30pm. Fee is $20. Hiawatha is receiving $5 back for every child registered.
- **Photo Backup Class:** Learn how to safely back up, store and organize your family's photos. Also learn what it takes to safely keep your photos from being damaged and lost and much more. $25 March 29th at 6pm in the Hiawatha Community Center.
- **Live Healthy Iowa 5K:** The City of Hiawatha Parks & Recreation have partnered with Live Healthy Iowa to host 1 of 14 5K races around the state of Iowa in conjunction with the Live Healthy Iowa 10 Week Challenge. This partnership is a collaborative effort in a way to combat Iowa's growing obesity problem and to make strides toward the goal of making Iowa the healthiest state in the nation! The 5K will begin at 8:00a.m. with a kids 1K to follow at 9:00a.m. Register at LiveHealthyIowa.com **5K Early deadline (**March 31) $20.00 ($10.00 for Live Healthy Iowa participants) **Late deadline** (April 7 NOON) $25.00 ($15.00 for Live Healthy Iowa participants) T-Shirt not guaranteed not guaranteed a T-shirt. **Kids 1K $5.00** On site entry $5.00
- **Chase Norton Memorial:** April 9, 2017 Come enjoy a great disc golf tournament at Fay Clark Park. The annual Hiawatha Open kicks off the year for disc golfers throughout the eastern Iowa corridor. Find more information at www.iowadiscgolf.net

- **Hiawatha Easter Egg Hunt:** The Annual Hiawatha Easter Egg Hunt is a fun, family event filled with surprises! Eggs will be spread in the grass at Guthridge Park. Children will also get to visit with the Hiawatha Easter Bunny. Event is held rain or shine. This event is sponsored by Roasters Coffee House. Saturday, April 15th 9:00 a.m. in Guthridge Park Don't be late! Eggs vanish in minutes!
- **Hiawatha Farmers Market:** The firs Hiawatha Farmers Market takes place on April 23 and continues through October 29 "Hiawatha Farmers Market brings the taste of Iowa Producers to you." 10th Avenue parking lot of Guthridge Park Sundays 11 a.m. – 2 p.m. It's your neighborhood get-together! Market is held rain or shine.

LiveHealthyIOWA 5K

SPONSORED BY

Easter EGG HUNT

Hiawatha Parks and Recreation
Regular Meeting
February 14, 2017

Deb Thies called the meeting to order at 6:06p.m. in the Hiawatha Council Chambers. Present: Brandon Lynch, Deb Theis, Dan Wilkes, Dawn Ewoldt Employees: Kelly Willadsen, Parks and Recreation Director, Ambyr Young, Administrative Coordinator, Kim Downs, City Administrator and Mark Parmenter, City Attorney. Guests: Dan Hoffman and Dan Gogel.
Motion by Dan Wilkes, second by Brandon Lynch to approve the February 14, 2017 agenda as amended. Motion carried.
Motion by Brandon Lynch, second by Dan Wilkes to approve the minutes of January 10, 2017. Motion carried.

Chairperson:

Chair and Vice Chair's terms have ended for the 2016 year. Recommendations were made to nominate Deb Thies as Chair, she accepted. Recommendations were made to nominate Dan Wilkes as the Vice Chair. He accepted.
Motion made by Dan Wilkes, second by Brandon Lynch to elect Deb Thies as Chairperson for the 2017 year. Motion carried.
Motion made by Deb Thies, second by Brandon Lynch to elect Dan Wilkes as Vice Chairman for the 2017 year. Motion carried.

Dog Park Recommendation to Council

Last year Dave Wright entertained the idea of a dog park within Hiawatha. Subaru is a big supporter of Dog Parks within each City they reside in. Dave has talked to Kim Downs, City Administrator and Kelly Willadsen, Director of Parks and Recreation, about the land he owns adjacent to his new auto detailing building and the Cedar Valley Trail that he believes would be a great location for future development. He mentioned he has no use for the land in the future that is appraised at 1.5 acres. Next to his land is a piece of land owned by Linn County Conservation, this too is equivalent to 1.5 acres.

In conjunction to Dave's 1.5 acres he has requested to swap land with Kainz Park which is equivalent to about .5 acres. The City has looked at the utilization of Kainz Park and has only had one confirmed rental each year over the last three years. Dave would allow the City to come up with an agreement to keep it a park as long as he has no plans for the lot (which could be 2 to 3 more years). When the time is right we would be able to move the shelter to another park where we think would be beneficial. Right now, Parks Maintenance mows and maintains Kainz, by swapping, those dollars would be transferred over to the dog park.

K9Cola is an organization that helps with other area dog parks in the corridor. They believe with a town our size we can eliminate permitting fees and place the responsibilities in the pet owner's

hands. The City of Mount Vernon currently does not permit for their park and has had no issues since they have been open September of 2013.

During Spring of 2016, Kim Downs, City Administrator, Dave Wright, Linn County Conservation and Kelly Willadsen sat down and discussed the possibilities of partnering on this project. Linn County Conservation Directors are very much in favor of the idea and would allow the City to use the land; small dog section and large dog section, parking, and access from the trail head to build a 3 acre park. The county would like the City to address additional parking and access from the trailhead.

The Cedar Valley Trail runs adjacent to the two properties. We found that the best access for the dog park would be right across from the trail head. Users would cross the trail to enter and make it as short of walk as possible so that park goers don't disturb other recreational trail users while entering. The proposed plan is to make a path down to the park from the trail head and add additional concrete next to the restrooms for a path that county has requested.

The City also looked at the surrounding neighborhoods that circle the property; our thought' is to keep a 15ft tree line outlining the property providing a barrier.

The County had concerns with the parking availability. Many bikers, joggers and walkers park at the Boyson Trail head on the weekends and in the summer months, they were afraid they would run out of parking space on a busy weekend if there are excess dog park users. Chief Marks and his staff monitored the parking lot for 3 weeks from July 22 through August 12 between the time slots of 7:00am-9:00am and 5:30pm-7:30pm which we believe are peak times for dog park users. On average there were ~15 cars in the morning and ~17 cars in the evening out of a parking lot that can hold at least 120 vehicles. We also have Kainz drive to hold additional parking as it allows parking on both sides. As of right now it is hard to tell how much use the park could get. County Conservation asked if the City would consider additional parking on the empty lot along Boyson Road on the Southside near the railroad tracks that belongs to the City. City officials agreed that idea was feasible because it would be used for vet memorial parking.

In addition, Kelly Willadsen and Kim Downs have also talked with Chief Marks and Chief Nesslage about the location and the safety. They both believe there will not be additional patrolling/responsibilities of the location. If needed, there is enough access to drive back to the location if necessary from the Cedar Valley Trail.

Over the last four years the City have received a hand full of requests from residents current/new if we had a dog park or whether we had thought about adding one to the community. With the reactions we received we originally place the construction of a dog park in the CIP for future years. Once Dave Wright approached the City with the support of the costs we took it off the CIP in FY16.

Recently our City Survey asked the question pertaining to the need for a Dog Park and the priority. You will see that 29% High Priority and Medium aligns with No Opinion at 31%, ending up being a 50/50 outcome. As a City, we are not funding this project we are only maintaining it once it's completed. Dave Wright has presented an opportunity to pay for the project in its entirety with low annual maintenance costs.

After the dog park is constructed the City will be responsible to maintaining the park. It is believed to take the park maintenance department less than 10 hours a week for the maintenance of the park.

Peterson Pet Hospital that will be new to Hiawatha in 2017 and would like to partner on helping maintain this park if council agrees to move forward. They know that their clientele will be using the park and would like to be involved in giving back to the community.

Right now the City is not planning on installing lights in the area, hours will be from sunrise to sunset to ensure safety of our patrons.

Kim Downs, City Administrator, advised that the City of Hiawatha is no more liable for injuries at the dog park than at of the other parks. Kelly advised that the only negatives she's heard of is in Cedar Rapids they permit for their parks but that we'd like to avoid that if possible. There will be rules and regulations posted before entering so that pet owners are aware to enter at their own risk.

Motion by Dan Wilkes, second by Dawn Ewoldt to request to council to council to approve the proposed dog park. Motion carried.

Reports:

- **Community Center Audio Visual:** The audio system in the Community Center is now complete and the sound has been fixed. We are happy to have the project completed.
- **Kids Movie Night:** March 10th will be the next kids movie night featuring the Secret Life of Pets. This will be the last spring movie night until fall. Movie Starts at 6:30pm. Dan Wilkes spoke with Hiawatha PTA and mentioned he'd like to see the City, Library and PTA collaborate on movies in the future.
- **Taste of Italy Cooking Class:** Five registered for our first ever cooking class in the Community Center. Participants learned to make noodles out of veggies, a five minute flat bread and a refreshing salad with an Italian twist! The next cooking class will take place on April 17th from 6-8pm in the community center and students will learn how to transform fresh ingredients into delicious meals. This hands on class will show you how to work with fresh citrus zest and ginger. We will make a cake in the microwave and a healthy appetizer. Bring your own drink. Registration is $35.
- **Pinterest Party Cork n Craft:** Here's a great idea for a girls night in... Cork and Craft Pinterest party! It's a fun way to get friends together to eat, gab, and craft. Who doesn't love Pinterest? And who doesn't pin crafts they'll probably never make? Well, here's a way to fix that! Lead by Laura Himschoot, we'll work together to make fun crafts that you can keep for your own or give as a gift. We'll provide all of the supplies and clean up the mess! You just need to pre-register and show up. Space is limited, so gather your friends and register today! BYOB! Fee: $25.00 March 7th: String Art 6-9pm in the Hiawatha Community Center.
- **Zumba:** Join us in the Hiawatha Community Center to try something new and burn some calories too! Brooke Lenz, Zumba certified instructor, will get you in the groove as you

dance for 30 minutes and have some fun! Come try it out for FREE! March 9 and April 13(5:30-6:00pm). The first two classes have had around 15 people.

- **Lil Cougar Dance Clinic:** 52 participants in this year's dance clinic! This is by far the best year we've had! The little dancers learned a new routine and made lots of friends. We are looking forward to having this event again in 2018.
- **Candlelight Yoga:** We had nearly 20 people show up to our January Candlelight Yoga! If you missed out, don't fret. There's additional dates' coming up. Here's the information to know what to expect. Wind down with a gentle Yoga flow in this sixty minute restorative class led by Kayla Davis. This restorative class will stretch your body and release the stress of the hectic week. Opening your body and mind, you will leave calmer, relaxed, and more present. This takes place Feb 23, March 30, and April 27. Preregistration is $8 online or drop in is $10. Class time is 6:45pm-7:45pm in the Community Center.
- **Kids in the Kitchen:** Children will make their own pizza and decorate a giant cookie all while learning kitchen safety. Children will get to take home their very own pizza stone for future use! March 6th at 6pm $25 in the Community Center.
- **Super Sitters:** This is our third year hosting Super Sitters in the Hiawatha Community Center. Michelle Altimaier from Mercy Medical Center and her assistant will be teaching a certified babysitter class through the American Red Cross. This takes place on March 15th from 8:30am to 2:30pm. Fee is $20.
- **Ride to Wrigley:** The bus to see the Cubs vs the Cardinals is full! We have started a waiting list if anyone is interested.
- **Dan Gogel:** With the approval from council on February 15th, Dan will be our new park board member. Dan will be joining us next month, here is a little bit about him:

I grew up in the small town of Anamosa, Iowa. The middle child of 7, I have always enjoyed being involved and meeting new people. I was active in sports from an early age and continued throughout high school lettering in football, wrestling, golf, and baseball. I attended the University of Iowa and received my B.S. in Psychology.

I am currently working at GreatAmerica Financial as a Vendor Relationship Manager. I have been married for three years to my wife Katie. We have a 2 year old son named Duke with another on the way. Katie, Duke, and I moved to Hiawatha just over a year ago and have enjoyed our time here. We very much look forward to raising our children and helping them grow into active participants in their community. I am also involved with a non-profit organization (Chelsey's Dream Foundation) where we work to help adoptive parents offset costs of their adoptions.

I am interested in joining the parks and recreation department because I believe community is important. I have always enjoyed meeting new people and want to be a part of events that will bring our community together. As a kid I was fortunate to be involved in a lot of activities and I would like to help create those same positive memories for others.

Motion by Dawn Ewoldt, second by Brandon Lynch, to adjourn at 6:34 p.m. Motion carried.

Deb Thies, Chairperson

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ATTEST: Kelly Willadsen, Parks and Recreation Director

_____

To: Hiawatha Parks and Recreation Commission,
CC: Mayor and Hiawatha City Council
Subject: Field Day 2017 at Fay M. Clark Memorial Park

The Cedar Valley Amateur Radio Club is requesting to use Clark Park for (ARRL) Field Day 2017 the weekend of June 23-25, 2017. Set-up of antennas and equipment will begin Friday afternoon June 23rd and continue until focus shifts to operating 24 hours starting Saturday June 24th at 1:00 PM CDT (weather permitting). Tear-down and clean-up will happen right after operations end, and should be finished by early afternoon Sunday June 25th. This will be our third year using this location for Field Day operations.

As we have done in the last two years we again ask to be allowed to use Clark Park for Field Day operations, it is our intent to keep people at the park overnight past the normal park hours: Friday night to stand watch due to equipment already in place, and Saturday night operating on the air.

We ask that the disc golf course be closed for this period of time – at a minimum for the portions of the course that will have people and equipment. (We use flagging materials to make the antennas and any guy lines very visible for everyone's safety.) The ARRL rules for Field day state all antennas and equipment must fall within a 1000 foot diameter circle, this could allow a few parts of the disc golf course outside this area to remain usable if desired.

CVARC also plans to continue to minimize the impact of moving some heavy items across the park and allow access to those with physical limitations with very limited use of ATVs, UTVs, and/or garden tractors. It is our intent to keep this a welcoming and inclusive event for all and leave the park as we found it prior to setup since we really like this location.

Please feel free to ask me if you have any questions, thank you for considering this request.
Daniel Hoffmann N0XZK

About CVARC: The Cedar Valley Amateur Radio Club (CVARC) is a non-profit organization registered in the state of Iowa. Our mission is to promote amateur radio activities in the Cedar Rapids, Iowa regional area. Our organization is dedicated to:

- Promoting interest in radio as a means of communication
- Providing educational programs and exhibits
- Contributing, in general, to the advancement of radio communications
- Training radio operators in the interest of national defense and emergencies
- Supplying and operating communication equipment during emergencies and as a general public service
- Assisting with elimination of interference to radio and television reception from all sources and particularly from amateur radio and communications equipment

As a function of these goals, CVARC is affiliated and works closely with the Amateur Radio Relay League (ARRL), Linn County Amateur Radio Emergency Services (ARES), and the Linn County Emergency Management Agency (EMA).

What is ARRL Field Day?

ARRL Field Day is the single most popular on-the-air event held annually in the US and Canada. On the fourth weekend of June of each year, more than 35,000 radio amateurs gather with their clubs, groups or simply with friends to operate from remote locations.

Field Day is a picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN!

It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, other groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity to demonstrate Amateur Radio to the organizations that Amateur Radio might serve in an emergency, as well as the general public. For many clubs, ARRL Field Day is one of the highlights of their annual calendar.

The contest part is simply to contact as many other stations as possible and to learn to operate our radio gear in abnormal situations and less than optimal conditions.

We use these same skills when we help with events such as marathons and bike-a-thons; fund-raisers such as walk-a-thons; celebrations such as parades; and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities.

But despite the development of very complex, modern communications systems — or maybe because they ARE so complex — ham radio has been called into action again and again to provide communications in crises when it really matters. Amateur Radio people (also called "hams") are well known for our communications support in real disaster and post-disaster situations.

What is the ARRL?

The American Radio Relay League is the national association for Amateur Radio in the USA, representing over 171,000 FCC-licensed Amateurs. The ARRL is the primary source of information about what is going on in ham radio. It provides books, news, support and information for individuals and clubs, special events, continuing education classes and other benefits for its members.

What is Amateur Radio

Often called "ham radio," the Amateur Radio Service has been around for a century. In that time, it's grown into a worldwide community of licensed operators using the airwaves with every conceivable means of communications technology. Its people range in age from youngsters to grandparents. Even rocket scientists and a rock star or two are in the ham ranks. Most, however, are just normal folks like you and me who enjoy learning and being able to transmit voice, data and pictures through the air to unusual places, both near and far, without depending on commercial systems.

The Amateur Radio frequencies are the last remaining place in the usable radio spectrum where you as an individual can develop and experiment with wireless communications. Hams not only can make and modify their equipment, but can create whole new ways to do things.

For More Information visit: www.arrl.org

Updated: 1/2017

The Arc.

For people with intellectual and developmental disabilities

The Arc of East Central Iowa
680 2nd Street SE
Cedar Rapids, IA 52401

T 319-365-0487
F 319-365-9938
www.arceci.org

Request

The Arc of East Central Iowa would like to request that Kona Ice of Cedar Rapids be onsite at our annual Sunday Fun Day. Sunday Fun Day, is a free social event for our families on Sunday, September 17th, 2017. We work with consumers who have intellectual and developmental disabilities and many of whom are on very strict diets. At Sunday Fun Day, we'd like to provide them with a treat that all can enjoy as Kona Ice is sugar, gluten and nut free and overall an allergen free treat for them to enjoy. What we would do is pay Kona Ice ahead of time as this a completely free event to our consumers and their families. They would not be selling onsite and at that, we would tell Kona Ice they are only allowed to serve our consumers 1 size (small). The Arc of East Central Iowa respectfully requests that you consider to allow us to have Kona Ice at our annual Sunday Fun Day on Sunday, Sept. 18th, 2017 from 1-3pm at Clark Park in Hiawatha.

Respectfully,

Lexi Coberly

Lexi Coberly
Event and Mission Outreach Coordinator
319-365-0487 ext. 1024
LCoberly@arceci.org

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2/27/17

City of Hiawatha Parks and Recreation

Kelly Willadsen and The Hiawatha Parks Board:

Hiawatha Kids League (HKL) has applied for a grant to get a small solar panel device and power supply with the intent to install into the Guthridge Park concession stand to power the refrigeration units, lighting and popcorn machine. The unit in question is enclosed and designed for smaller residential applications like the concession stand.

This would demonstrate we are powered with Green power source and save the league on the cost of electric for years to come. It would also educate the youth of the league about the aspects of solar power.

We appeal to the parks board for approval to install this system prior to the beginning of the 2017 season should HKL be awarded the grant. We would abide with any city permit requirements and utilize certified contractors for the installation. Can our solar panel initiative be presented to the board for approval should our grant be approved? If a representative from HKL is needed at the meeting please advise when and where this would take place and we will have representation.

Thanks,

Chris Richards

HKL Board Member

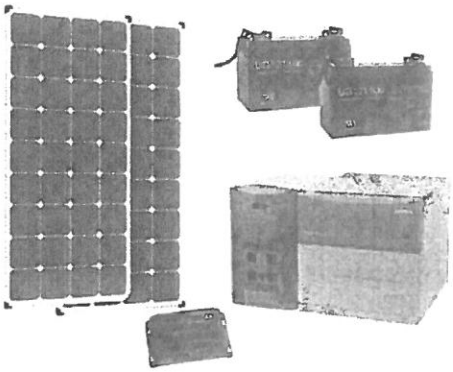
319-213-8036

teresa.richards@mchsi.com

NORTHERN TOOL + EQUIPMENT NorthernTool.com | 1-800-221-0516 | Available Online Only

Strongway Solar Power Package — 1800 Watts

Item# 4570006 New — Write a Review| 6 Answered Questions



Was $1999.99
Sale $1899.99
Save $100.00

- Versatile Strongway 165 Watt crystalline solar panels (Item# 49696) provide efficient power. Aluminum frame and tempered glass deliver weatherproof, maintenance-free performance. Two 26.5in.L x 58.75in.W x 1.6in.D panels are included in this offer; additional wire may be required to complete installation, depending on your application
- 12V, 110Ah UPG AGM (absorbed glass mat) batteries (Item# 349903) are shock-resistant and maintenance-free, producing higher cranking amps, extremely low (1–3%) self-discharge rate and greater vibration resistance. Two batteries included in this offer, providing a 12V, 220Ah system
- The Xantrex PowerHub 1800 modified sinewave inverter (Item# 457000) is an ideal power solution, with advanced technology that lets user harvest energy from multiple power sources and convert it to AC power
- Strongway 30 Amp Digital Charge Controller (Item# 49685) provides a safe, controlled charging rate. Stabilizes incoming voltage to prevent 12V batteries from overcharge and discharge. **Depending on your level of expertise, professional installation may be required for this item**
- Once your system is in place, you can expand it further with additional solar panels, wind turbine or portable generator, depending on your needs (appropriately sized charge controller is required for additions)

Product Summary

The Strongway™ 1800 Watt Solar Power Package lets you put the power of alternative energy to use. Capture, store and deliver the power you need for a variety of applications, including your home or cabin.

What's Included

(1) Powerhub (2) Solar panels (2) 12V batteries (1) Digital charge controller

STRONGWAY

Features + Benefits

- Versatile Strongway 165 Watt crystalline solar panels (Item# 49696) provide efficient power. Aluminum frame and tempered glass deliver weatherproof, maintenance-free performance. Two 26.5in.L x 58.75in.W x 1.6in.D panels are included in this offer; additional wire may be required to complete installation, depending on your application
- 12V, 110Ah UPG AGM (absorbed glass mat) batteries (Item# 349903) are shock-resistant and maintenance-free, producing higher cranking amps, extremely low (1–3%) self-discharge rate and greater vibration
- Strongway 30 Amp Digital Charge Controller (Item# 49685) provides a safe, controlled charging rate. Stabilizes incoming voltage to prevent 12V batteries from overcharge and discharge. **Depending on your level of expertise, professional installation may be required for this item**
- Once your system is in place, you can expand it further with additional solar panels, wind turbine or portable generator, depending on your needs (appropriately sized charge controller is required for additions)
- Additional cables may be required for your application.

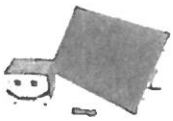
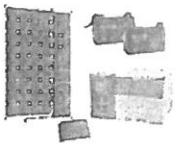
resistance. Two batteries included in this offer, providing a 12V, 220Ah system

- The Xantrex PowerHub 1800 modified sinewave inverter (Item# 457000) is an ideal power solution, with advanced technology that lets user harvest energy from multiple power sources and convert it to AC power

Key Specs

Item#	4570006
Ship Weight	255.6 lbs
Panel Type	Crystalline
Solar Panel Wattage	165
Inverter Sine Wave	Modified
Dimensions L x W x H (in.)	26 1/2 x 1 3/5 x 58 3/4
Panel Thickness (in.)	1 3/5
Solar Panels Included (qty.)	2
Weather Resistant	Solar panel
Battery Included	Yes, w/kit only
Battery Type	12V
Batteries (qty.)	2
Mounting Hardware Included	No
Professional Installation Required	No
Mounting Type	Metal bracket (not included)
Mounting Hardware Angle Adjustable	No
Mount Solar Tracking	No
Snow Load Rating	5,400 Pa
Wind Load Rating	2,400 Pa
Amps	8.77
Power (Volts)	12
Rechargeable Battery Bank	No
Alternative Power Collection	Compatible w/other renewable energy alternatives
Automatic Switch Back	No
Hardwired	No
Allows Backfeeding of Power	No
Works With Gas Generator	Yes
Solar Power Compatible	Yes
Battery Enclosure	No
UL Listed	No
Assembly Required	Yes

Compare with Most Popular Solar + Wind Systems

		Currently Viewing			
					
	Humless Complete Solar Power System with Solar Generator — 3000 Surge Watts, 1500 Rated Watts	Strongway Solar Power Package — 1800 Watts	SolarPod Crystalline Solar PV System — 1200 Watts, (Four 300 Watt Panels), Model# 1001	SolarPod Standalone Crystalline Modular System — 1000 Watts (Four 250 Watt Panels),	SolarPod Standalone Crystalline Modular System — 1.08 kW (Four 270 Watt Panels), Model#
	(Not Yet Rated - New) Item# 56015	(Not Yet Rated - New) Item# 4570006	(2) Item# 22928	(Not Yet Rated - New) Item# 46071	(Not Yet Rated - New) Item# 46070
	Factory Shipped — Estimated Delivery: 5 - 7 Business Days	In Stock Online	Factory Shipped — Estimated Delivery: 5 - 7 Business Days	Factory Shipped — Estimated Delivery: 17 - 19 Business Days	Factory Shipped — Estimated Delivery: 17 - 19 Business Days
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Panel Type	Monocrystalline	Crystalline	Crystalline	Crystalline	Crystalline
Solar Panel Wattage	130	165	?300	≥240	≥270

Rated Watts (kW)	-	-	?1.0	≥0.96	≥1.08
Inverter Sine Wave	Pure sine wave	Modified	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Dimensions L x W x H (in.)	21 x 17 x 18	26 1/2 x 1 3/5 x 58 3/4	13 1/2ft. x 5ft. x 5ft.	13 1/2ft. x 5ft. x 5ft.	13 1/2ft. x 5ft. x 5ft.
Panel Thickness (in.)	-	1 3/5	1 1/2	1 1/2	1 1/2
Solar Panels Included (qty.)	1	2	4	4	4
Weather Resistant	Yes	Solar panel	Yes	Yes	Yes
Battery Included	Yes	Yes, w/kit only	No	Yes	Yes
Battery Type	LFP	12V	-	Sealed deep cycle AGM	Sealed deep cycle AGM
Batteries (qty.)	Built-in	2	-	4	4
Mounting Hardware Included	-	No	Yes	Yes	Yes
Professional Installation Required	No	No	Yes	Yes	Yes
Mounting Type	-	Metal bracket (not included)	SolarPod™	SolarPod™	SolarPod™
Mounting Hardware Angle Adjustable	Yes	No	Yes	Yes	Yes
Mount Solar Tracking	-	No	Manual tracking	Manual tracking	Manual tracking
Snow Load Rating	-	5,400 Pa	45-lbs. per sq. ft.	45 lbs. per sq. ft.	45 lbs. per sq. ft.
Wind Load Rating	-	2,400 Pa	Yes	Yes	Yes
Speed (MPH)	-	-	110	110	110
Material Type	-	-	Silicon	Silicon	Silicon
Standby Unit	Yes	-	-	-	-
Running Watts	1,500	-	-	-	-
Amps	-	8.77	-	-	-
Surge Watts	3,000	-	-	-	-
Power (Volts)	120 AC/12 DC	12	-	-	-
Run Time (hrs.)	-	-	Continuous	Continuous	Continuous
Rechargeable Battery Bank	Yes	No	-	-	-
Alternative Power Collection	Yes	Compatible w/other renewable energy alternatives	-	-	-
Automatic Switch Back	Yes	No	-	-	-
Hardwired	-	No	No	No	No
Allows Backfeeding of Power	-	No	Yes	No	No
Works With Gas Generator	Yes	Yes	-	Yes	Yes
Solar Power Compatible	Yes	Yes	Yes	Yes	Yes
Battery Enclosure	Yes	No	No	No	No
UL Listed	CE approved to UL standards	No	Yes	Yes	Yes
Assembly Required	No	Yes	Yes	Yes	Yes
Product Weight (lbs.)	34	-	-	-	-

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