

A person wearing a red jacket, a grey beanie with white stripes, and sunglasses is climbing a snowy mountain peak. They are carrying a large backpack and holding a rope. The background is a bright, hazy sky.

**GOAL0**™  
**EXTREME**

**RANGER**™ **350**  
*Reference Guide*

Please read this guide BEFORE you use your gear!

## Input

AC Wall Charger	45 watts (15.3V:5A)
DC 12V*	120 watts (12V:10A)
DC Solar Panels*	Depends on solar panels

## Output

USB*	2.5 watts (5V:0.5A)
AC Inverter*	400 watts (110V:3.6A)
Fuse Protection	20A (protects 12V barrel)

## Internal Battery

Type	AGM Battery
Capacity	350 watt hours (12V:33Ah)
Voltage	12 V DC (nominal)
Temp. Controller	Ports shut down if temp. is >122°F
Life Cycles	500-1,000
Shelf Life	5+ years Life 6 months (stored <70°F)

\*Products not included with the RANGER 350 battery alone

## General

Warranty	Twelve months
Product Weight (no pkg)	26 lbs
Product Dimensions	9 x 10 x 6 (inch)



Tested and certified

Before using your RANGER 350 power pack for the first time, activate your warranty and charge your RANGER 350 fully by following these simple steps.

1. Activate your warranty by registering your GOAL ZERO gear at <http://www.goal0.com/warranty>
2. Charge your RANGER 350 for 8 hours prior to first use.
3. The RANGER's LCD battery indicator will scroll when receiving a charge.
4. The RANGER has a full charge when the power monitor reaches 100% and stops scrolling.

You are now ready to take your RANGER and go!

*Hint: Your RANGER will perform better by using it regularly. Recharging after each use will maximize performance and extend its life. We strongly recommend that you recharge your RANGER after each use. The RANGER will not overcharge.*

*PROTECT your gear by using it and charging it frequently to extend its life.*

*PROTECT your gear from getting wet. Dry before use.*

When you're off the grid you need to know how long it will really take to power up. You don't want numbers that come out of a laboratory based on perfect conditions. At GOAL ZERO all of our gear is field tested with an independent team of extreme adventurers that span from alpinists to ocean rowers. The charging times listed here come from countless hours of real world testing. That's why we call it TruWatt™ - real numbers that you can count on.

### The TruWatt™ Power Grid

	WATTS*	HOURS**
Cell Phone	0.9	388
LED Light	3	116
Netbook	14	24
FRS Radio	0.5	700
Avalanche RX	3.7	94
GO Pro Camera	1.61	217
Handheld GPS	0.54	648
Satellite Phone	0.57	614

\*Watts consumed each hour.

\*\*Hours a fully charged RANGER will power these devices.

CARRY IT

Ergonomically designed and rubberized handle makes for easy portability.

CHAIN IT

Increase the amount of available power by chaining up to a total of four (4) RANGER 350 power packs.



STACK IT

Rubberized feet allow for stacking multiple RANGER's securely.

STORE POWER

Charge the RANGER from the wall adapter or GOAL ZERO solar panels.

SEE IT

Instantly see how much power is available from the RANGER's LCD screen.



PROTECT IT

Replaceable fuses protect the RANGER from power spikes.

**Q- Is my RANGER waterproof?**

A-No. It is weather resistant. If your RANGER does get wet, allow it to dry completely before you use it.

**Q- Does the RANGER have “battery” memory?**

A-No. Older battery technologies used to suffer from memory problems. The RANGER’s technology is smart and prevents memory challenges of old.

**Q- Will my RANGER “burn-out” if plugged in too long?**

A-Keeping the RANGER plugged in actually improves the life of the RANGER. Just like your body-staying active improves its health. At a minimum charge the RANGER at least once every three (3) months. Keeping the RANGER plugged in **all** of the time will keep it healthy and always ready.

**Q- How long does it take to charge the RANGER?**

A-From the wall you can expect 4 to 5 hours. From other sources refer to the TruWatt reference guide for general guidelines.

**Q- What do I do if the Ranger won’t hold a charge?**

A-If you charge the Ranger and it still shows that it is empty please contact a GOAL ZERO gear specialist. The internal battery may need to be replaced. If this has occurred within six (6) months of purchase and the warranty was activated we will replace the battery at no cost to you.

Q- How does the RANGER perform in extreme temperatures and conditions?

A-The RANGER performs very well within 0 F to 104 F. We are talking electronics here so if you're using the RANGER in extreme conditions you may experience performance issues. Stay within the recommended temperatures and the RANGER will perform well.



### EXTREME POWER PACKS

When your mission is to maintain power for longer periods of time in the world's most extreme conditions, this power pack delivers exactly what you need to succeed.



### EXTREME SOLAR PANELS

When you are deep in the heart of nowhere, power and recharge your battery faster than ever with the technology of this 30 watt highly efficient mono-crystalline solar panel that can be linked to other panels for maximum energy.



### EXTREME INVERTER

Partner the RANGER UI with the RANGER 350 power to provide electricity to base camp. Complete with AC, USB, and DC outputs.



Available at [www.goal0.com](http://www.goal0.com).



## *Did You Know...*

By purchasing GOAL ZERO gear you are helping to sustain the philanthropic initiatives of Tifie Humanitarian. In fact, GOAL ZERO was originally created to provide light in schools and orphanages across Africa. We invite you to learn more about our charity of choice by visiting Tifie's website at:

[www.tifie.org](http://www.tifie.org)

Join Tifie and GOAL ZERO on **facebook**.

**GOAL**   
**EXTREME**

Please call us at 888-794-6250  
if you have any additional questions.