

# **TOMAHAWK eTOS30 Battery Power Sweeper User Manual**

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### **Register Your Equipment**

Thank you for purchasing TOMAHAWK® equipment! Your product is covered by the TOMAHAWK® Warranty policy, but in order to activate your warranty, we need you to register your product.

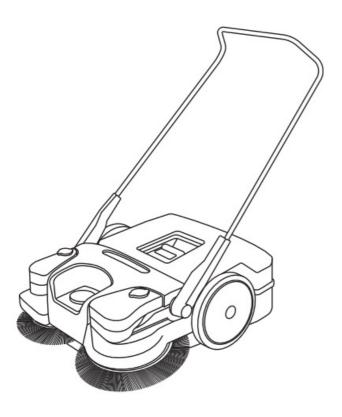
In addition to activating your equipment warranty, product registration will grant you access to important product updates, streamlined customer service and more.

### **INCLUDED WITH YOUR REGISTRATION**

- Equipment Warranty Activation
- Product Updates
- Streamlined Customer Service
- · Excusive Discounts and Sales

### STEPS TO REGISTER YOUR EQUIPMENT

- 1. Visit www.tomahawk-power.com
- 2. Choose "Product Registration" at the bottom of the page
- 3. Enter your equipment's serial number to get started
- 4. Provide all required information
- 5. Submit Registration



### **Equipment Resources**

TOMAHAWK® Customer Service doesn't stop at checkout.

We understand to keep a job-site running smoothly – the proper equipment, spare parts, instruction manuals, and more are needed at the drop of a hat.

Visit <u>www.tomahawk-power.com</u> to gain access to the incredible resources below.

### **How To Video Library**

More of a visual person? Visit our Video Library for equipment assembly instructions, troubleshooting tips, and more! Found at the TOMAHAWK® Resource Center

### **Manual and Assembly Guide Library**

Visit our Manual Library if you are looking for a lost operations manual or a particular spare part? Found on the TOMAHAWK® Manuals Page

### **Service Requests**

In need of a quick fix or a service center referral? Submit a Service Request and a TOMAHAWK® Technician will respond shortly to get you the help you need.

Choose "Service Request" at the bottom of <a href="www.tomahawk-power.com">www.tomahawk-power.com</a>



This manual provides information and procedures to safely operate and maintain this model. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the machine.

If you lose this manual or need an additional copy, please contact TOMAHAWK® or visit <a href="www.tomahawk-power.com">www.tomahawk-power.com</a>

This machine is built with user safety in mind; however, it can present hazards if improperly operated and serviced.

Follow operating instructions carefully.

If you have questions about operating or servicing this equipment, please contact TOMAHAWK®.

The information contained in this manual is based on machines in production at the time of publication. TOMAHAWK® reserves the right to change any portion of this information without notice.

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Any type of reproduction or distribution not authorized by TOMAHAWK® represents an infringement of valid copyrights and will be prosecuted.

We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

### **SAFETY INFORMATION**

This manual contains DANGER, WARNING, CAUTION, and NOTE callouts which must be followed to reduce the possibility of personal injury, damage to the equipment, or improper service.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

### **Operating Safety**

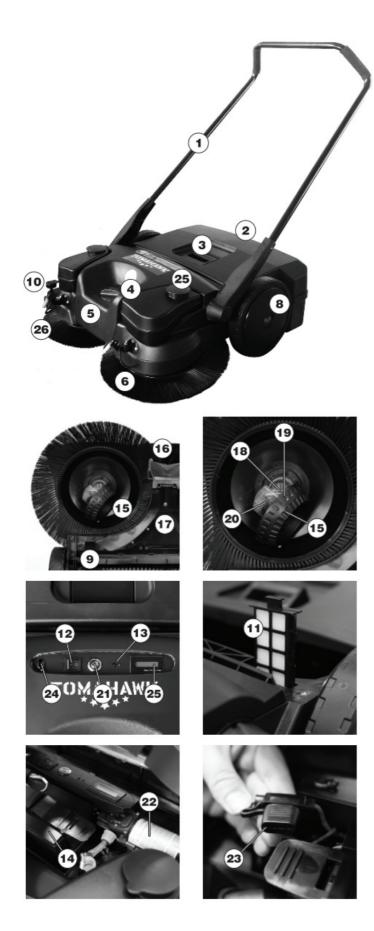
- Observe all applicable local safety regulations, standards, and ordinances.
- Individuals who operate the sweeper must be informed about the dangers related to use of the machine.
- Do not operate the sweeper if you are under the influence of any substance (drugs, alcohol) which might impair vision, dexterity, or judgment.
- Keep bystanders, especially children, and animals away from the work area.
- The user is responsible for avoiding injury to third parties or damage to their property.
- Do not lend or rent your power tool without the instruction manual.
  - Be sure that anyone using it understands the information contained in this manual.
- If you have any condition that might be aggravated by strenuous work, check with your doctor before operating a power tool.

### Usage

- The sweeper is designed for sweeping road dust, leaves, grass, paper, and similar items from flat and hard surfaces.
- Do not sweep substances that are dangerous to health.
  - The power tool is not suitable for sweeping liquids.
- Never sweep explosive dusts, liquids, acids, or solvents.
- Do not operate the power tool in potentially explosive atmospheres.
- Do not use the power tool as a means of transport.
- · Wear sturdy shoes with non-slip soles

### **EQUIPMENT DATA**

### **Features**



- 1. Push Handle
- 2. Waste Bin
- 3. Waste Bin Handle
- 4. Disc Brush Height Adjustment
- 5. Carrying Handle
- 6. Disc Brush

- 7. Side Guide Roller
- 8. Running Wheel
- 9. Fine Dirt Sweeping Roller
- 10. Holding-Down Device
- 11. Dust Filter
- 12. On/Off Switch
- 13. LED Indicators
- 14. Battery
- 15. Angled Wheel
- 16. Sweeping Lip
- 17. Sweeping Plate
- 18. Clutch
- 19. Toothed Sleeve
- 20. Gear Protection
- 21. Water Pump Switch
- 22. Water Pump
- 23. Fuse
- 24. Charger Socket
- 25. Battery Indicator
- 26. Spray Nozzle

### **SPECIFICATIONS**

eTOS30 SPECIFICATIONS		
Working Width 30.7 in.		
Cleaning Area	12,467 ft	
Container Capacity	13.5 gallons	
Net Weight	43 lb.	

Gross Weight	48.5 lb.
Package Size	42.7 x 31.3 x 41.1 in
Overall Dimensions	31.8 x 11.8 x 32.7 in.
Water Tank Container	87 oz
Battery Rated Voltage	12v
Battery Capacity	384 Wh
Battery Running Time When Fully Charged	5 hours
Battery Temperature	14F – 122F
Charging Temperature	32F – 104F
Storage Temperature	14F – 104F
Charger Input Voltage	100-240v
Charger Output Voltage	12.6v
Charging Current	8 watt/volt
Roller Brush	12V 40W
Side Brush	12V 30W
Water Pump Power	30W
Nozzle Aperture	0.01 in.
Spraying Time	1 hour

### **SWEEPER ASSEMBLY**

- 1. Turn handle fittings (1) so that they are positioned vertically upwards.
- 2. Press locking springs(3) on push handle (2).
- 3. Push the push handle (2) simultaneously into the two handle fittings (1).
- 4. Press the push handle into the handle fittings until the locking springs engage.







- 5. Pull cover forwards at the front bottom edge 4).
- 6. Lift cover up by unclipping the two latches underneath (4).
- 7. Plug the fuse into the negative terminal found in the bag (5-6).

Red= Positive Terminal (+)

Blue= Negative Terminal (-)







8. Close cover (4).

### **CHARGING THE BATTERY**



Do not insert any electrically conductive objects in the charging socket or the sweeper may be da maged by a short circuit.

Disconnect the cable at the WARNING battery before carrying out maintenance and cleaning wor k.



A short circuit in the charging socket can lead to a cable fire in the sweeper.



The charger has a fully electronic voltage and current limitation function.

This ensures that a connected battery is always kept at the optimum state of charge.

This prevents overcharging of the battery.

The battery is not fully charged on delivery.

Do not switch on the sweeper during charging.

- · Plug the charger plug into the charging socket on the sweeper
- Plug the charger into a 100~240V power outlet

### While Charging

- The LED indicator on the charger lights up red during charging
- The charging of the sweeper takes approximately 6~7 hours
- LED indicator on the charger lights up green when finished charging
- · Sweeper will not operate when charging.

### **Overload Protection**

- The motors are equipped with overload protection to prevent damage
- The sweeper switches off automatically in the event of overloading

### **MAINTENANCE**

The machine must be serviced regularly.

Do not attempt any maintenance or repair work not described in the Instruction Manual.

All other work should be carried out by a servicing dealer

### **Checking the Machine Prior to Use**

- Check to ensure that the push handle is securely attached to the sweeper.
- Check condition of waste bin and ensure that it is securely attached.
- Check the disc brushes and fine dirt sweeping roller for stuck parts and embedded dirt bristles must move freely.
- Check height adjustment of the disc brushes and adjust to the ground to be swept.
- · Check the height adjustment.

### **Sprayer Device**

- When using your sweeper for the first time, unscrew, and remove the nozzle to clear the air out of the pipeline, otherwise it may cause abnormal spraying.
- To prevent clogging of nozzle, add tap water.
- When you add water, be careful not to splash the water on the screen of the switch, otherwise it may cause the equipment to malfunction.
- If the nozzle is clogged, remove and clean.
- When the temperature is below 32F or the sweeper will be stored for a long time, please ensure to empty the water tank.

### **Emptying the Water Tank**

- Unscrew the spray nozzle and place a container under the pipe of the spray nozzle.
- Turn on the power switch and water pump switch.

• Turn off all switches when the water tank is empty.

### **Removing the Handles**

- Adjust the handles so that the arrows on the housing are flush with the lugs on the handle fittings.
- Position yourself in front of the sweeper inside the push handle.
- Grasp both handle fittings with your hands.
- Carefully press both handle fittings outwards.
- Simultaneously pull the handle fittings out of the two mounts on the sweeper.

### **Disconnecting the Battery**



Improper disconnection of the sweeper may cause damage to the sweeper For storage periods of longer than 2 months: disconnect the battery cable to protect the battery against deep discharge.

The sweeper may be damaged, and the warranty rendered void if the cables are mixed up on the battery.

- Pull the cover forwards at the front bottom edge.
- · Swivel the cover up.
- Pull the battery cable (blue) (1) off contact tab (2).



### **Storage**

- Empty the waste bin.
- Switch the ON/OFF switch to "O" position.
- Position the sweeper so that the bristles are not kinked or bent.
- Secure the sweeper to prevent it from tipping, slipping or being damaged.
- Do not store the sweeper outside or in a damp place.

### **Transportation**



Do not carry the sweeper by the handle of the waste bin.

- Fold the push handle (1) forwards so that it is in flat position.
- Grasp the sweeper at the carrying handle (2).
- Carry the sweeper so that the disc brushes are facing away from the body (3).





### **TROUBLESHOOTING**

REASON	POSSIBLE CAUSES	SOLUTION	
	Power supply positive and negative poles are reversed	Connect properly	
No Response LED Light Is Not Lit	Circuit board P+/P- plug off	Reconnect	
	The fuse is burned or missing	Install a new fuse	
	The connection plug is loose	Reconnect the line	
Brush Does Not Turn Green LED	Broken brush, circuit board protection	Turn off the power and clean up fore ign objects	
Light Is Always On Or Flashing	The brush is too low from the ground and the brush resistance is high	Height adjustment	
	Front brush wear	Replace the turbine/brush	
The Red LED Flashes And The M achine Do Not Work	Power < 5%, Voltage <9V, Circuit bo ard protection	Charging the battery	
The Pump Works Normally but D	The nozzle is blocked or broken	Cleaning or replacing the nozzle	
oes Not Spray Water	External filter is blocked	Clean or replace the filter	
	The brush is blocked	Clear the blockage	
Slow Or Unsmooth Movement W hen Working Without Power	The sweeper is too dirty	Clean the sweeper	
	Brush driver is dirty	Clean the driver, apply lubricant	
Not Picking Up All Debris When S weeping	Cleaning lip is lost, loose, or worn	Replace the cleaning lip	
	Trash bin is full	Dumping the garbage	
Brush Is Bending	Inappropriate storage	Blow straight with a hair dryer	

### **MAINTENANCE RECORD**

TOMAHAWK® tools are assembled with care and will provide years of service when properly maintained. Preventative maintenance and routine service are essential to the long life of your tool. Adhere to reading through this manual thoroughly.

You will find that you can do some of the regular maintenance yourself.

However, when in need of parts or major service, be sure to contact a TOMAHAWK® Technician. For your convenience we have provided this space to record relevant data about your TOMAHAWK® equipment.

Invoice Number:	Type of Machine:	
Date Purchased:	Dealer Name:	
Serial Number:	Dealer Phone:	

REPLACEMENT PARTSUSED			MAINTENANCE LOG			
PART NO.	DESCRIPTION	QTY COST		DATE	DATE	OPERATION

### REPLACEMENT PARTS

- For replacement parts and technical questions visit <u>www.tomahawk-power.com</u> or scan the QR code on the front of this manual.
- Not all equipment components are available for replacement.
   The illustrations within this manual are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following will be required: equipment model number, serial number/lot, date code, and description.
- The distributor reserves the right to make design changes and/or improvements to equipment, parts, accessories, and manuals without notice.

### **WARRANTY**

Your new TOMAHAWK® equipment is warranted to the original purchaser for a period of one-year.

12 months) from the original date of purchase.

The TOMAHAWK® warranty is against defects in design, materials and workmanship.

### The following are not covered under the warranty:

- 1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
- 2. Alterations, additions or repairs carried out by persons other than TOMAHAWK® or their recognized agents.
- 3. Transportation or shipment costs to and from TOMAHAWK® or their recognized agents, for repair or assessment against a warranty claim, on any machine.
- 4. Materials and/or labor costs to renew, repair or replace components due to fair wear and tear.

TOMAHAWK® and/or their recognized agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

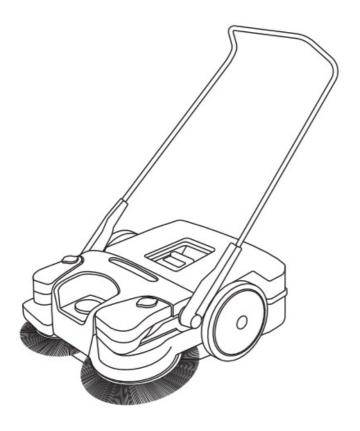
### **Warranty Claims**

Before submitting any warranty claim, your new TOMAHAWK® equipment should be registered through <a href="https://www.tomahawk-power.com">www.tomahawk-power.com</a>

Follow the steps on page 3 to complete the equipment registration.

After registration is complete, all warranty claims should firstly be directed to TOMAHAWK® through the online Service Request form found at <a href="https://www.tomahawk-power.com/pages/service-request">www.tomahawk-power.com/pages/service-request</a>.

### **eTOS30 BATTERY POWER SWEEPER**



### **Parts Description**

Part No.	Description	Quantity
1	Machine Frame	1

2	Regulating Handle	1
3	Anti-Collision Axle	1
4	Anti-Collision Wheel	1
5	Push Button	1
6	Bearing 61805-2Rs	4
7	Connecting Sleeve	1
8	Unidirectional Spring	1
9	Small Turbine	1
10	Brush Motor Assembly	1
11	Bearing 61903-2Rs	4
12	Turbine Cover	1
13	M 4 X 70 Assault Spike	1
14	Wheel	2
15	Wheel Cover	2
16	Wheel Cap Pin	2
17	Dust Collector Assembly	1
18	Front Wheel Assembly	2
19	Spur Gear	2
20	Front Brush Assembly	2
21	Fixed Shaft	2
22	Fixed Axle Cover	2
23	Front Brush Motor Assembly	2
24	Adjusting Lever Left	1

25	Adjusting Lever	1
26		2
20	Handrail Support	2
27	Battery Assembly	1
28	Switch Seat Assembly	1
29	Upper Cover Assembly	1
30	Handrail	1
31	Dust Container Assembly	1
32	Small Pinions	1
33	Monomia Case	1
34	Big Pinions	1
35	Self-Tapping Nailst4.2×19	15
36	Roller Brush Assembly	1
37	Turbine Arm	2
38	Self-Tapping Nailst4.2×16	16
39	Camber Plate Left	1
40	Camber Plate Right	1
41	Camber Plate	1
42	Battery Pressure Plate 1	1
43	Battery Pressure Plate 2	1
44	Battery Pressure Plate 3	1
45	Sponge Assembly	2
46	Signage	1
47	Chargers	2

48	Nozzle Base Assembly	2
49	Water Container Assembly	2
50	Water Pipes And Fittings	1
51	Pump	1
52	Pump Support 1/2	4
53	Filter Assembly	2
54	Insurance Pipe	1
55	Manual	1
56	Carton Box	1

### **PRODUCT CATALOG**

### COMPACTION



### **FINISHING**

# 6.5 Gal Backpack Concrete Spra yer Part#: TCS6.5

# 1.6 HP Vibratory Concrete Scree d



6" Early Entry Green Concrete S aw

Part#: TFS6H



Maintain constant, adjustable press ure up to 450 PSI

Achieve superior concrete finishes with even spraying

Spray 15,000 sq ft in less than 10 minutes

Compatible with major manufacturer wands

1 Year Product Warranty

1.6 HP Honda GX35 Engine Aluminum Magnesium blades avail able from 8ft – 14ft

Finish concrete 4X faster than other screed methods

360° adjustable handle placement 3 Year Engine Warranty & 1 Year P roduct Warranty 5.5 HP Honda GX160 Engine Maximum cutting depth of 1 3/16 in ches

OSHA compliant vacuum port for d ust collection

Includes 6" early entry concrete bla de

3 Year Engine Warranty & 1 Year P roduct Warranty

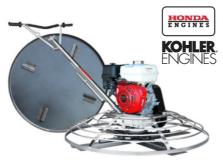
### **FINISHING**

# 1.6HP Backpack Concrete Vibrat or

Part#: TVIBH + TVW10-P



36" & 46" Concrete Power Trowel Part#: TPT36H/K & TPT46H/K



8" Gas Powered Concrete Scarifi ed

Part#: TSCAR8H



1.6 HP Honda GX35 engine Consolidation with speeds of 10,00 0-12,000 VPM

Quick Connect centrifugal clutch vi brator

1" and 2" Diameter Whips Available in 10ft Length

3 Year Engine Warranty & 1 Year P roduct Warranty

6 HP/14HP Kohler & 5.5HP/8.5HP Honda Engines

Adjust trowel blade pitch from 0-28° 60-115 RPM rotor speed for superi or concrete finishes

Includes float pan and trowel blade

3 Year Engine Warranty & 1 Year P roduct Warranty

5.5 HP Honda GX160 Engine Remove traffic lines at 800 – 1,000 linear ft/hr

Tungsten Carbide Blade Kit Available

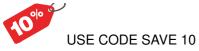
OSHA approved dust port for silica vacuum removal

3 Year Engine Warranty & 1 Year P roduct Warranty

### **HAVE QUESTIONS?**

Contact us. We're here to help!

Email us at: sales@tomahawk-power.com



AT CHECK OUT FOR 10% OFF YOUR ORDER AT WWW.TOMAHAWK-POWER.COM

### **POWER / WELDING**

### **INVERTER SERIES**

### 2000 Watt Inverter Generator Part#: TG2000i



### 210 Amp Portable Welder Genera tor

Part#: TWG135A

**INVERTER SERIES** 



## Part#: TWG210A

210 Amp Portable Welder Genera



2000 Max Watts, 1600 Rated Watts Run Time of 8 hours on 1 gallon of

OSHA and GFCI Compliant Parallel technology capable for dou ble the power

2 Year Product Warranty

Steady 50 - 135 Amp DC welding o utput

3300 Watt Inverter Generator 60% Duty Cycle for extended use Suitable for welding rods from 6010 to 7024

2 Year Product Warranty

Steady 50 – 210 Amp DC welding o utput

2000 Watt Inverter Generator 60% Duty Cycle for extended use Suitable for welding rods from 6010 to 7024

2 Year Product Warranty

### **PEST CONTROL**

# 3.7 Gallon 3HP Backpack Fogger Part#: TMD14

4.75 Gallon Battery Power Spray

Part#: eTPS18

**5 Gallon Backpack Power Spraye** Part#: TPS25

Turbo Boosted Pump with 40ft + Ho rizontal Reach Sprays 1 acre in 30 minutes 10X Faster than Manual Pump Spr

Converts to Leaf Blower with 200 MPH Air Velocity 1 Year Product Warranty

Reach Up to 30ft Horizontal Reach Sprays 6000 sq ft in 10 minutes 10X Faster than Manual Pump Spr ayers

70 PSI Commercial Grade Pump 1 Year Product Warranty

Reach Up to 30ft Horizontal Reach Sprays acres in 10 minutes 10X Faster than Manual Pump Spr

50-435 Adjustable PSI Commercial Grade Pump

1 Year Product Warranty

### AND MORE



3" Full Trash Water Pump Part#: TW3H



Commercial 38" Push Sweeper Part#: TOS38



Reach up to 30ft Horizontally Sprays 1 acre in 30 minutes 20X Faster than push spreaders Converts to Leaf Blower with 200 MPH Air Velocity

1 Year Product Warranty

Moves liquids at a rate up to 375 g al/min

Handle solids up to 1.5"

Silicone carbide seals and a chrom e plated volute

8 HP engine protected by rugged all purpose frame

3 Year Engine Warranty & 1 Year P roduct Warranty

Collect up to 14.5 gallons of dust a nd debris

Can be used indoors & outdoors on wet or dry surfaces

Includes integrated airflow control a nd fine dust filter

Lightweight design, capable of fittin g through doorways

1 Year Product Warranty

All coupons in this manual are valid only for orders placed on www.tomahawk-power.com, unless otherwise noted.

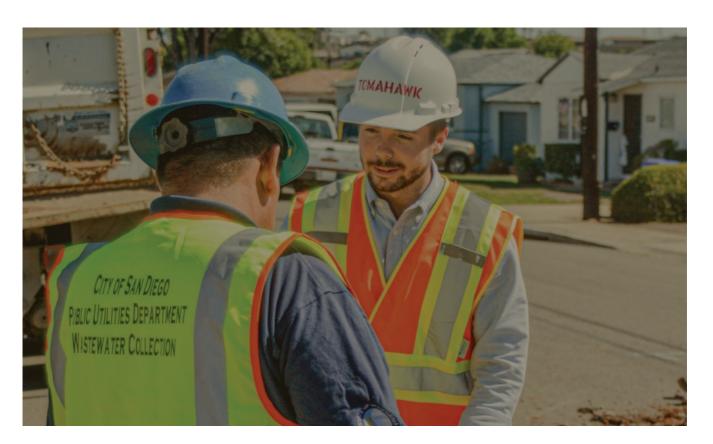
Coupon codes may only be used on caper customer and may not be combined with any other offer. Coupons may expire at any time without notice

### **Power Your World**

Tomahawk understands to keep a job-site running smoothly the proper equipment and spare parts are needed at the drop of a hat.

With same day shipping and faster delivery times, count on Tomahawk to keep you powered throughout the day! With long lasting parts and engines, Tomahawk equipment will be the star of your fleet for years to come.

Visit <u>www.tomahawk-power.com</u> to get started today!



### **CUSTOMER SUPPORT**

TOMAHAWK®, LLC

San Diego, CA

**Sales Support** 

(866) 577-4476

sales@tomahawk-power.com

**Equipment Support** 

(866) 577-4476

support@tomahawk-power.com



facebook.com/TomahawkPowerUSA



youtube.com/TomahawkPower





### **Documents / Resources**



TOMAHAWK eTOS30 Battery Power Sweeper [pdf] User Manual eTOS30 Battery Power Sweeper, eTOS30, Battery Power Sweeper, Power Sweeper, Sweeper

### References

- P Homepage | Power Integrations, Inc.
- ★ Tomahawk Power
- \* Service Request | Tomahawk Power

Manuals+,