



Specifications

Model: PQ 300-TC

The PQ 300-1 uses the same chassis as the PQ 500 and can be used as a 300 or a 500. The major difference is the PQ 300 includes the options to use an exterior on-board battery. When using with the on-board battery pack the weight limit is reduced to 300 pounds (136 kg) due to the lower voltage of the on-board battery. All PowerQuick Ascender meet the same stringent safety and general operational specifications. There are different speed and weight capabilities in our various versions depending on the configuration.



Safety Features for all

PowerQuick Ascender Configurations

Tested to a safety factor of 5 for structural and a factor of 2 operationally

- Temperature sensor shuts unit down in event of hot motor.
- Interlock switch on cover ensures that unit will not operate if rope handler cover is not properly closed.
- Can be operated using remote or manual control
- Remote range up to 200 ft (61 meters). The range may be affected by local interference from cell towers or other electrical signals.
- Remote control overrides local control
- Rope cannot be removed from ascender when it is under a load.
- Auto-braking in hands-off position provides for both locked-off and emergency or panic lockoff. No force need be applied for panic lockoff.
- Emergency Stop Button: cuts power to unit
- Load limiter: Prevents lifting of load in excess of 900 lbs (409 kg).
- Auto-braking in hands-off position provides for emergency stop.
- Static Load/Stationary holding capacity: 1,100 lbs (500kg)
- Dynamic load capacity: 2,500 lbs (1,136 kg)
 - *Load Test: Dynamic: .6 m drop with full rated load = Approximately 2,600 lb/1,179kg force*
- Hold on rope*: greater than 1,100 lb/ lb/499kg
- Forward reverse power control
 - Operating Temperature:

- 32° F to 113° F/0° C to 45° C
- Palm Interlock must be engaged to start unit
- Low voltage sensor detects low battery voltage and shuts unit down. PQ 500 level is 26 VDC,
- No pinch points
- No sharp edges, points, etc., capable of puncturing or cutting the skin
- Accessible surface temperature do not exceed 65° C
- Rotating parts protection
- No shock hazard
- Can be operated with gloves and protective clothing

• Use restrictions



- Not to be used after shock load of in excess of 1,200 lbs (544kg).
- Not to be used after drop greater than 4 ft (1.2meters) onto hard surface
(Must undergo inspection and recertification after these events)

• Environmental conditions

- Operating Temperature Range: 32° F to 113°F (0° C to +45° C).
- Moisture: May be used in wet weather. However; do not immerse this product in water, for example, a lake, swimming pool or water puddle. May result in serious personal injury.
- No negative affect from corrosive environments, e.g. salt water or spray. Should be cleaned after use in these environments
- Dust, sand, dirt, mud etc: .The ascender can be used in oily, or dirty conditions without affecting the performance. However; for rope safety, keep ascender clean of heavy debris. Inspect and clean rope prior to each use and periodically during use.

• Power Supply

• Standard battery

- NiMH Rechargeable Battery: 36vdc, 30 amp, 360 amp -minutes discharge to 25 vdc.
- Climbing Time: 500 to 600 feet (152-182m) per charge.
- Battery Pack Weight: 14 lbs.
- Designed to withstand 4-ft (1.2meters) drop on hard surface.
- Battery life: approximately 800 charge/discharge cycles (temperatures extremes can affect battery life)
- Battery is protected with an internal fuse that will disable the battery in event of a short circuit. The normal battery uses a blade type 40 amp fuse.
- The battery cable is 6 foot long with a threaded connector on either end. The cable connectors are such that it is impossible to connect the cable backwards.

▪ On-board battery

- On-board rechargeable 36-volt Nickel Metal Hydride Battery
 - Dimensions: 2.5x3.5x11.25 in (.762m x 1.06 x3.429 m)

- Weight: 4 lbs (1.8k)
- Battery Life: 300 to 400 ft (91.44 to 121.92 m) climbing per charge

• Charger

- Use to charge PowerQuick NiMH battery packs only
- Input: 115/230VAC 60/50 Hz 1.8/1.0A
- Output 36VDC/2.6A Continuous

Operational Features:

Applies in all configurations

- Compatible with standard climbing gear (Must be used in accordance with manufacturers instructions meet applicable requirements and regulations)
- Rope Type: 11 mm or 12 mm static (low stretch) kernmantle rope (recommend New England, Blue Water, PMI, or PowerQuick brand ropes) (Note: Care and maintenance of rope required per manufacturer's instructions.) **Do not use dynamic (stretch) ropes.**
 - By special request we can size the capstan to operate with 8mm tactical rope
- Dimensions: 18"x10"x12.5"
- Lifting capacity: while all models are tested to our standard 500 pounds/227 kg; gross load 550 lbs (250kg) lifting capacity, the stated lifting capacity for the 300 TC will vary for different models. This is because of the correlation between battery amperage and the rated speed when use with different battery packs. So while lifting capacity will be stated for each configuration, from a safety standpoint the capacity is the same.
- Lift Speed: 1 ft/ (.3048m)/sec (40 ft minute)
- Operating Temperature:
 - 32° F to 113° F/0° C to 45° C
- Forward reverse power control

PQ 300-1 Specification when operated with on-board battery

- Weight with on-board battery: 28 pounds/12.8 kg
- Dimensions: 18"x10"x12.5"
- Lifting capacity:
 - 300 pounds/136 kg net
- Lift Speed: 40 ft minute
- Power options:
 - On-board rechargeable 36-volt Nickel Metal Hydride Battery
 - Dimensions: 2.5x3.5x11.25 in (.762m x 1.06 x3.429 m)
 - Weight: 4 lbs (1.8k)
 - Battery Life: 300 to 400 ft (91.44 to 121.92 m) climbing per charge

PQ 300-1 Specification when operated with separate battery

- Weight: 28 pounds (13 kg)
- Dimensions: 18"x10"x12.5"
- Lifting capacity:
 - 300 pounds
- Lift Speed: 90 ft minute
- Operating Temperature:
 - 32° F to 113° F/0° C to 45° C
- Forward reverse power control
 - Use standard battery

PQ 500-1 Configuration using standard battery

- Lifting capacity: 500 pounds/227 kg; gross load 550 lbs (250kg) includes PQ 500 and battery pack.
- Designed for use by multiple users, for high level access and egress
- Can carry up to 1,100 pounds for emergency egress.
- Lifting speed: 40 ft/min
- Powered descent speed: up to 1 ft (.9meter)/sec (varies with weight)

Personal Safety



- Do not operate if under the age of 18. Do not operate unless YOU HAVE BEEN TRAINED by a certified trainer. Dangerous in the hands of untrained users.
- For information on PowerQuick, Inc. approved trainers contact your distributor.
- Stay alert, watch what you are doing and use common sense when operating the Power Quick Ascender. Do not use while tired or under the influence of drugs, alcohol, or medications. A moment of inattention while operating may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one model may become hazardous when used on another. See your distributor for the approved Accessories List
- Carefully read the maintenance and certification instructions. Check for misalignment, loosening or binding of moving parts, breakage of parts, and any other condition that may effect the operation. If damaged, have the ascender serviced before using. Many accidents are caused by poorly maintained equipment.

- Do not immerse this product in water, for example, a lake, swimming pool or water puddle. May result in serious personal injury.
- Do not connect or disconnect battery cable from either the PQ 500 or battery in a potentially explosive environment.
- Limit climb or descend to 200 foot intervals. Allow 15 to 30 seconds for unit to cool during long climbs or descents.
- Operation with excessive loads and low battery voltage may cause clutches to overheat and smoke. It is the operator's responsibility to insure that the PQ 500 is not overloaded.
- Keep ascender clean of debris. Inspect and clean rope prior to each use and periodically during use. This is particularly important when the ascender is used in dirty environments.

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