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Item # 910-3522-021, Pacesetter Plus 24V PWM DC Drive 100A



Pacesetter Plus 24V PWM DC Drive 100A

24 VDC Input/Output four-quadrant PWM DC drive for battery operated vehicles or devices. 100 amp peak, 55 A continuous rated output current. On-board adjustments for acceleration/deceleration, reverse speed, throttle gain and throttle center. Anti-rollback circuitry, regenerative braking for safe and quiet operation. Throttle loss, low battery, throttle-out-of-range and throttle sequence protection built-in. Drives an external electromechanical brake up to 2 amps. High power in a small footprint with simple hookup and operation round out this rugged drive.

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FEATURES

- **24 Volt Four-Quadrant Operation** - Provides true regenerative operation for excellent braking and speed control
- **Separate Accel/Decel Adjustments** -Provisions for factory set resistors or on-board optional potentiometers
- **Anti-Rollback Circuitry** - Minimizes roll back on hills by autosetting the brake delay function
- **Current Limit Protection with Peak-Boost Feature** - Rated up to 70 amps peak 25 amps continuous. short-term boost feature for extra power in negotiating obstacles
- **Reverse Speed Max adjustment** - Full Range Adjustment - factory set resistor or optional potentiometer
- **Input Pot Range Adjustment**- Adjusts input gain to compensate for variations in pot Styles and Rotation - Factory set resistor or optional potentiometer
- **Input Pot Center Adjustment** - Allows for easy adjustment of throttle neutral - Standard supplied potentiometer
- **Reverse Polarity Protection (Battery Input)** - Prevents closure of the on-board "power" contactor - eliminates voltage blocking devices
- **Control Inhibit Input** - (Logic High) use this input to disable the drive when charging the battery
- **High Throttle Monitor** - Prevents operation on start-up until throttle has been returned to a neutral position
- **Brake Output** - Provides separate output to a brake (2 amps)
- **Pot Loss Protection** - Prevents operation when voltage is less than 16.5-17 vdc. protects motor, controller, and batteries
- **Anti-Plug Circuitry** - Prevents instantaneous voltage reversal causing damage to the motor or controller
- **Neutral Throttle** - Applies brakes when throttle is released or power is interrupted
- **Quick Connect Terminals** - All connections to the controller are made through standard 0.250 "fast-on" connectors

SPECIFICATIONS

Nominal Input Voltage (DC)	24 V
Current Rating	70A Peak, - 25A Continuous, - 90A Short-Term (Provisions for external heatsinking to increase continuous rating)
Max. Brake Output	2 A
Switch Frequency	18 kHz
Input Speed Pot	5K recommended (Adjustable with resistor factory set or optional potentiometer)
Accel/Decel Ramps	2-2 seconds resistor factory set or optional potentiometer
Brake Delay	1-3 seconds - resistor set by factory or user

Reverse Speed Range	0-100% - resistor factory set or optional potentiometer
Under Voltage Trip Point (DC)	16.5-17 V
Connectors	250 "Fast-On" connectors for battery, brake, speed- pot, inhibit, power switch, and motor
