

# PQ SERIES

## DC MOTOR CONTROLLER



For Separately Excited Motor

12 - 48 VDC 300A

### DESCRIPTION:

Stars PQ-series separately excited motor controllers are perfect for systems requiring peak currents to 300A and system voltages from 12VDC to 48VDC. Stars Separately Excited Motor Controllers are programmable and microprocessor based, with an advanced MOSFET power section for smooth and seamless control of separately excited motors. The motor controller is fully programmable by means of the Stars PD-0711A handheld programmer. STARS PQ-Series motor controllers are designed for use in a variety of small industrial vehicles and in material handling equipment.



### APPLICATIONS:

Small pallet trucks, sweepers, scissor lifts, golf carts, electric staker, platform truck, marine and other electric vehicles fitted with Separately Excited motor DC motors.

### GENERAL FEATURES INCLUDE:

- Power MOSFET technology provides smooth, silent, efficient, and cost-effective operation.
- Adjustable parameters enable custom optimization of speed, torque, and braking control.
- Half bridge armature and full bridge field provides regenerative braking down to near zero speed.
- Anti-stall function helps prevent motor commutator damage.
- LED status indicator.
- Extensive fault detection and diagnostic reporting using a Stars Programmer including.

### SPECIFICATIONS:

- Current Booster
- Operating Frequency : 16KHz
- Microprocessor Logic
- Internal Hour Meter
- Internal Battery Discharge Indicator
- Dimensions (mm) : 172L x 146W x 72H
- Case : Aluminum alloy and Plastic , black Finish
- Operating temperature : -30°C to + 50°C
- Storage temperature : -40°C to +70°C
- Protection :Overheat, Overcurrent & Low Voltage Protection

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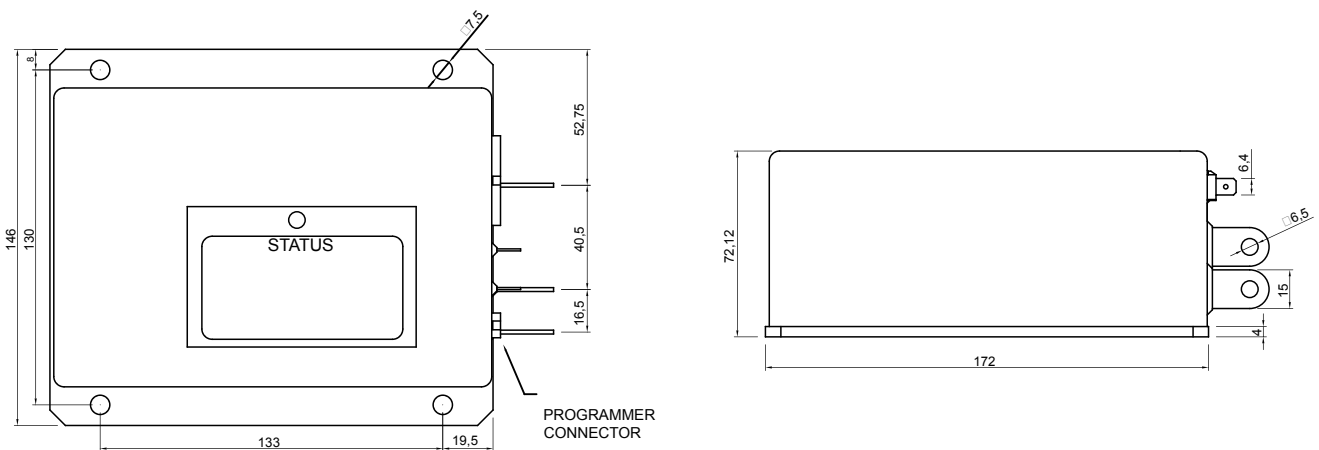
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### PRODUCT FEATURES:

Model	Voltage	Current	1-min cont. current (A)	1-hour cont. current (A)
PQ1230	12V	300A	300A	125A
PQ2430	24V	300A	300A	125A
PQ3630	36V	300A	300A	125A
PQ4830	48V	300A	300A	125A

### DIMENSIONS:



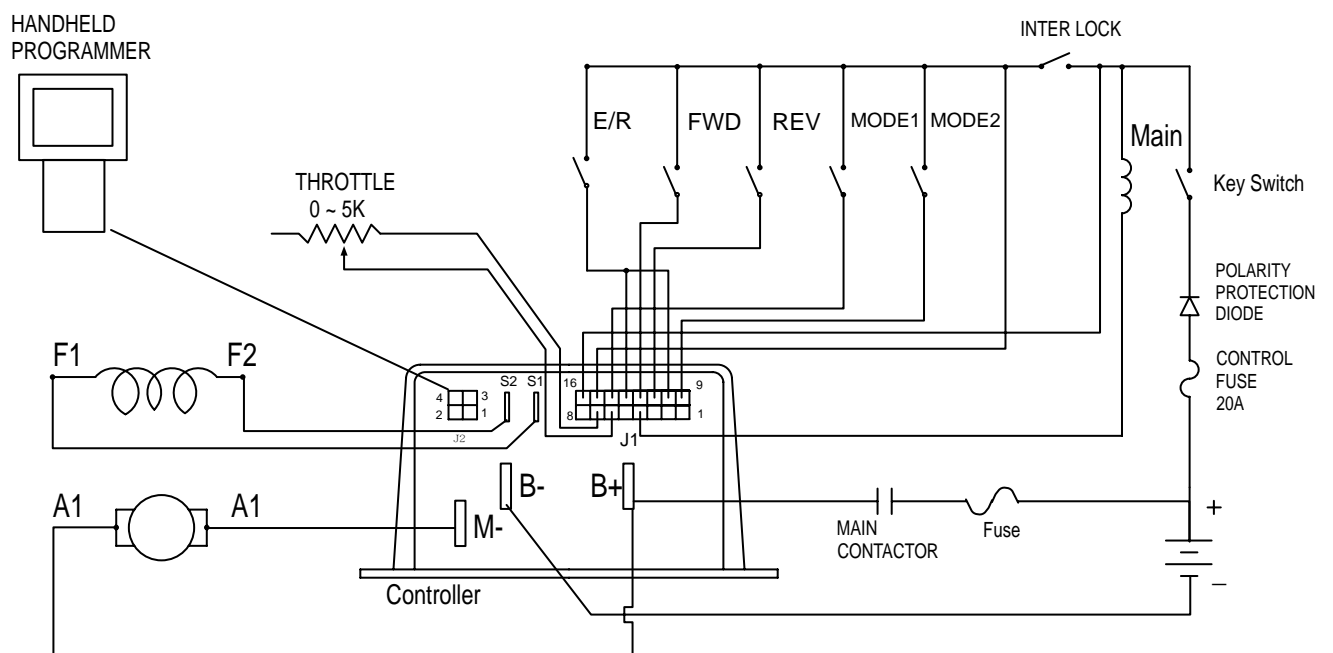
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### TYPICAL WIRING DIAGRAM:



STARS CO., LTD.  
NO. 323 KUO-CHI RD. SEC.2  
TAOYUAN TAIWAN R.O.C.  
+886-3-3699587 TEL  
+886-3-3699687 TEL  
+886-3-3699661 FAX  
info@starstw.com  
[www.starstw.com](http://www.starstw.com)



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