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## Q-DRV-M Series

### LED Driver – Dimmer Board

Part Number 69060-2 Drives 12" – 15"

Part Number 69060-3 Drives 10.4"

The Q-Vio LED driver – dimmer board is optimally designed to power up the Q-Solar series of sunlight readable displays. With a wide dimming range and stable brightness, the design offers a broad range of features and benefits.

#### Features:

- 7V-18V input voltage range
- Constant current for LED drive
- Low end dimming control to .1 nits for NVIS compatibility
- On board PWM control: 1,000 to 1
- Designed, manufactured, and supported in San Diego, California

## Connector J2 and J4

### LED Driver/Power

J2 and J4 Molex, part number 22-05-3021

J2 - 1 (+) anode  
J2 - 2 (-) cathode

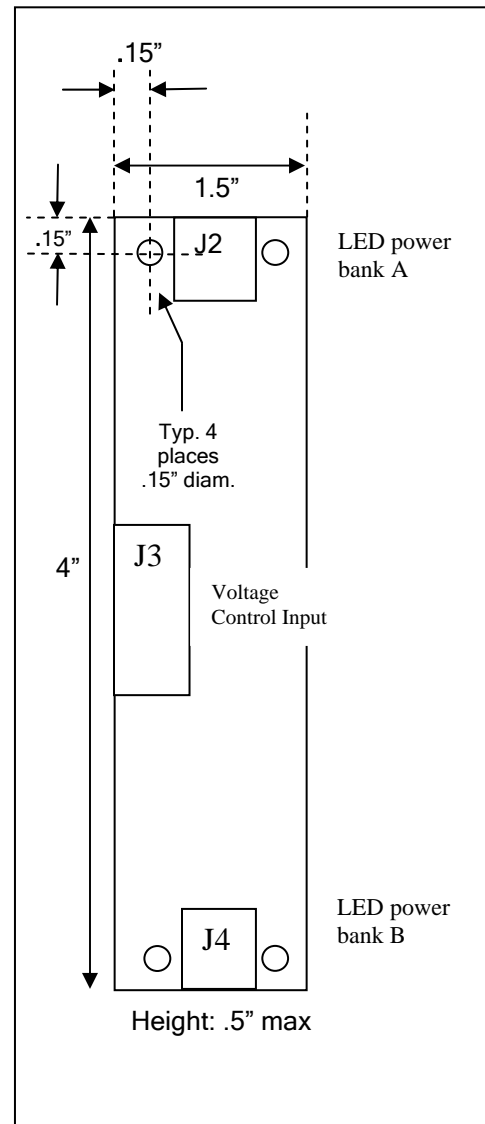
J4 - 1 (+) anode  
J4 - 2 (-) cathode

## Connector J3

### Voltage Control Input

J3 JST, part number S8B-PH-K-S

J3 - 1 12V	J3 - 4 GND	J3 - 7 ENA
J3 - 2 12V	J3 - 5 GND	J3 - 8 Dim (0v-5v)
J3 - 3 12V	J3 - 6 GND	





## Characteristics

Characteristic	Symbol	Min	Typ	Max	Units
Storage Temp	Tst	-40		+80	C
Operating Temp	Top	-20		+65	C
Input Voltage	Vin	+7	+12	+18	V dc
Input Current	Iin		2.1		A dc
LED String Voltage	V LED			+40	V dc
Output Current (Per String)	Iout	358	360	362	m A dc

**Q-DRV-M Series**  
**P/N 69060-2**  
**P/N 69030-3**  
**Rev2- 1410-2**



## Input Current Settings

### Attention:

The input current for each driver card is set to drive a specific display. Driver cards cannot be interchanged between manufacturers, sizes or part numbers. Please refer to the chart below to determine the input current setting for each specific display. All displays and driver cards are labeled with the input current in order to match the driver card to the display.

#### Q-Solar Part Number

#### Input Current Setting

QB104XI01-00	300 m A
QB121XI01-00	500 m A
QB150XI01-00	500 m A
QG150XI33D-00	600 m A
QG150XI433D-00	170 m A

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**Rev. 1410-2**