
Step 1 - Kelly KBL/KEB Series Controllers Configuration Program V3.1
Kelly Controllers
http://www.KellyController.com
Controller Information
Model: KBL72201ÿ
Serial Number: 10180480
SoftWare Version: 0302
General Setting
Foot Switch [1]
Enable
Disable
Throttle Sensor Type [2]
3-wire Pot
Throttle effective starting position
20%
Throttle effective ending position
95%
Max Motor Current [3]
100%
Max Battery Current[4]
85%
Description
1. If enabled, please turn on foot switch to activate throttle.
2.Usually Hall Throttle valid signal range is about 1V-4V. The controller will report fault for <0.5V or
3. The max output current as percentage of controller current rating. i.e. A 400A rated controller will limit the max output to 200A if you choose 50% here.
4.Controller will cut back motor current at high speed, to limit battery current. Controller can output Max Motor Current at low speed. Note motor current can be much higher than battery current at low speed.
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Step 2 - Kelly KBL/KEB Series Controllers Configuration Program V3.1
Kelly Controllers
http://www.KellyController.com
General Setting
Start-up Delay [1]
0.5 sec.
Hall Sensor Type [2]
120 degree
Start Check
Control Mode
Balanced
Under Voltage [3]
60V
Over Voltage [4]
88V
Throttle Up/Down Rate
3
Fast
Slow
Power On High Pedal Disable
Enable
Disable
Releasing Brake High Pedal Disable[6]
Enable
Disable
Description
1. Set delay time to wait for stabilization of B+, mostly for main contactor debouncing.
2. Select 60 degree or 120 degree according to your motor hall sensor type.
3. Controller will cut back current at battery voltage lower than 1.1x the value, cut out at the value, and resume operation at 1.05x the value.
4. Controller will cut back regen current at 0.95x the value, cut out regen if voltage reached the setting, and resume regen at 0.95x the value.
5. If enabled, the controller will report fault and not operate if throttle got effective output at power up.
6. If enabled, the controller will report fault and not operate if throttle got effective output when releasing the brake.
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Step 3 - Kelly KBL/KEB Series Controllers Configuration Program V3.1

Kelly Controllers

http://www.KellyController.com

Configuration Wizard

General Setting

Motor Top Speed [1]	100%		
Motor Poles[2]		8	
Half Speed In Reverse[3]		○ Enable	◉ Disable
Boost Function[4]		○ Enable	◉ Disable
Turbo Function[5]		○ Enable	◉ Disable
Half Current in Reverse[6]		○ Enable	◉ Disable

Description

1. slide the silder to change allowed top speed of your motor. Actually it's done by limiting motor voltage to the percentage of battery voltage.
2. Motor poles configuration. When using CAN to get controller's parameter, please configure this parameter accurately.
3. if enabled,the max reverse speed will be limited to half of the max forward speed if reverse switch closed.
4. If enabled, the controller will output max power right after Brake signal > 4.2V. Or say you can wire a boost switch between Brake Input and 5V to activate it.
5. If enabled, the max output current will be limited to half of normal condition if Brake signal > 4.2V. Or say you may wire a boost switch between Brake Input and 5V to activate it.
6. If enabled, the max output current will be limited to half at reversing. Activated by reverse switch.

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Step 4 - Kelly KBL/KEB Series Controllers Configuration Program V3.1

Kelly Controllers

http://www.KellyController.com

Configuration Wizard

Regeneration Setting

Regeneration [1]		◉ Enable	○ Disable
Brake Switch [2]		◉ Enable	○ Disable
Releasing Throttle Starts Regen [3]	Disable		
Regen Current by Brake Switch On	30%		
Max Regen Current [4]	100%		
Brake Sensor Type [5]		No Used	
Brake Sensor Starting Point	20%		
Brake Sensor Ending Point	80%		

Description

1. Regen is to recover mechanical energy, and charge back to battery. It has braking effect. Battery and secure current path are required during regen. Braker/Contactor on battery line has to be closed.
2. If enable, turn off throttle and turn on brake switch will start regen.
3. If enable, regen starts just after throttle released. You may disable it by dragging the slider to the leftmost position. Brake switch or brake sensor isn't required for the mode. The mode is only available for firmware version 0209 or later.
4. Max regen current with max signal from brake sensor.
5. It's to vary regen on time. Please choose "Not Used" if analog brake sensor isn't used. You have to turn on brake switch to start the regen, then vary the regen with the signal.

Brake Sensor Type is the same as Throttle Sensor Type.

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Step 5 - Kelly KBL/KEB Series Controllers Configuration Program V3.1
Kelly Controllers
http://www.KellyController.com
Sensor Setting
Motor Temperature Sensor [1]
Enable
Disable
Controller Stop Output Temperature
125C
Controller Resume Output Temperature
110C
CAN Setting
Description
1. Thermistor is optional. Default to KTY83-122.
Alternative to a thermistor, voltage signal 4.5V to 30V on the motor temperature input pin (J2 Pin 4) will disable the controller.
caculating the max regen current in each mode:
actual regen current=max driving current*0.5*max allowed regen current of self-regen mode*tps mode and max allowed regen current or max allowed regen current of braking switch mode
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Step 6 - Kelly KBL/KEB Series Controllers Configuration Program V3.1
Kelly Controllers
http://www.KellyController.com
Finish Setting
Please click finish button to write configuration into the controller.
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