



FEATURES

- Applicable to IM, PM, and BLDC motors for traction and lifting
- Nominal Voltage: 48V / 72V
- Output Cont. Current: 450~650A
- SMARTuning® software with auto-tuning function
- MTPA (Maximum Torque per Amp.) function
- Field-oriented control (FOC) algorithm
- IP Rating: IP65
- Protection:
 - Over temperature protection
 - Over current protection
 - Under voltage protection
 - Over voltage protection
- Regenerative modes:
 - Accelerator off (accelerator release)
 - Brake pedal (extend brake pad wear)
 - Direction braking (switch-back)
- Anti-rollback control
- Hydraulic motor control
- Drive power levels:
 - H: High
 - N: Normal
 - E: Economic
 - S: Smooth

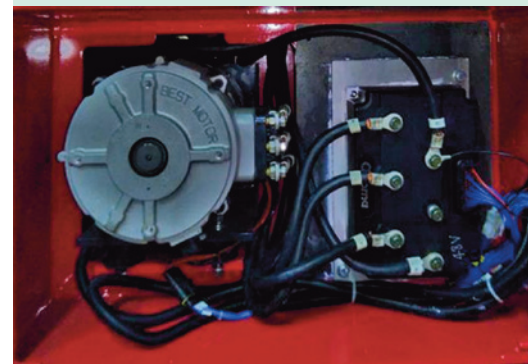
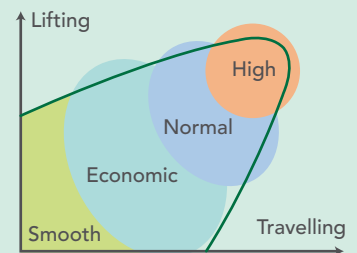
MOTOR CONTROLLER - CR SERIES ELECTRIC FORKLIFT APPLICATION

CR Series AC motor controllers are suitable for electric forklift application, ranging from 1.5 to 3.5 tons load capacities. Controllers are available for nominal battery voltages of 48V and 72V, which can be integrated with traction motors or lifting motors. The rugged design, with high IP rating, enables the controller to operate in a harshworking environment.

Special features incorporated into the CR Series for forklift application include selection of four drive power levels: high, normal, economic, and smooth; and three regenerative modes: accelerator off, brake pedal, and

direction braking. The anti-rollback control prevents the lift truck from rolling backwards abruptly on a slope when you take your foot off the brake pedal. When the battery voltage is low, CR Series reduces output current for battery protection. The controller also has hydraulic motor control for lifting, steering, and tilting applications.

CR Series proves to consist of ideal motor controllers with high performance, reliability, and safety for electric forklift application.

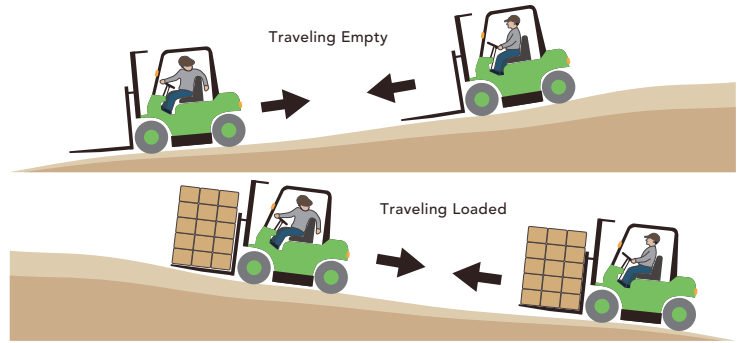




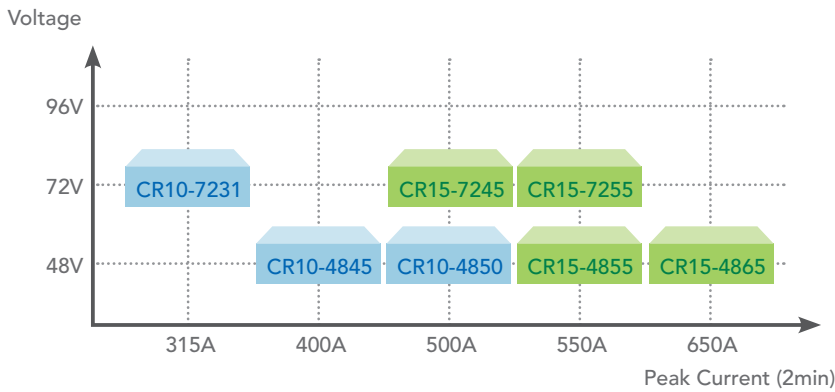
Electric Forklift Motor Controller Solution

Anti-rollback Feature

The anti-rollback feature prevents the lift truck from rolling backwards abruptly on a slope when you take your foot off the brake pedal. The truck will be held still for a few seconds before it starts rolling backwards slowly and smoothly.



CR Series Controller Product Portfolio



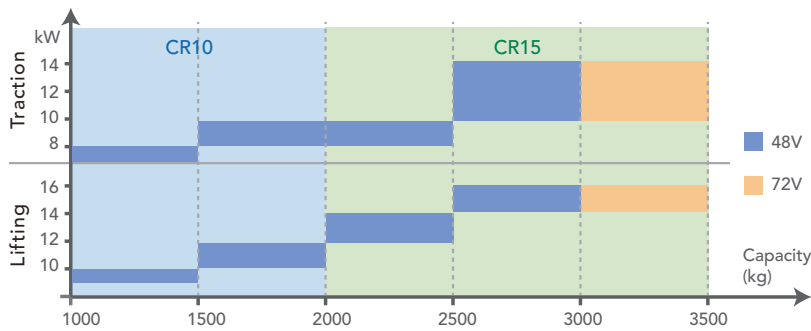
CR10: 232x165x85mm



CR15: 275x232x85mm



Selection Guide



Forklift Display Information:

- 1 Drive power level
- 2 Trackable hour meters
- 3 Load weight (option)
- 4 Wheel indicator (option)



Item	Unit	Specifications
Truck Type	Load Capacity	kg 1500 2000 2500 3000 3500
	Battery Voltage	V 48 48 48 48 72
Traction Motor Application	Motor@60min	kW 8 10 10 14 14
	Controller Peak Current	A 450 500 600 650 450
	Controller Model	-- CR10-4845 CR10-4850 CR15-4860 CR15-4865 CR15-7245
Lifting Motor Application	Motor@5min	kW 9-10 10-12 12-14 14-16 14-16
	Controller Peak Current	A 450 500 600 650 550
	Controller Model	-- CR10-4845 CR10-4850 CR15-4860 CR15-4865 CR15-7255

All specifications are subject to change without notice.