



AC-M1 Controller

The AC-M1 Controller is designed to control AC motors up to 10kW. Based on high reliable DCB technology, an exceptionally smooth and stable ITC Control Algorithm, AC-M1 Controller is a revolutionary and high quality solution for medium power applications.

The AC-M1 can be easily connected to other peripherals to perform a complex network in which all nodes communicate with one another via Can bus.

In pump configuration, it can be connected to AC-M2 controller for counterbalanced applications with twin AC traction motors.

Typical applications:

Counterbalanced Lift Trucks, Cleaning Machines, Golf Cars, Aerial Lifts, Utility Vehicles, Tow Trucks, Tractors.

Technical Characteristics

Technology:

- Low Rds(on) MOSFET
- 16 bits DSP controlling 1 AC motor
- High Speed FLASH Memory
- Switching Frequency: 9kHz
- Integrated Hall Effect Current Sensors
- Communication: RS232, Lin and CAN-Bus

Supply Voltage (V):

24,36,48,72,80

Maximum Current:

(24V) 350 - 450 - 600Arms (2')
 (36/48V) 375 - 500 Arms (2')
 (80V) 350 - 450 Arms (2')

Working temperature range:

-30°C +40°C

Maximum heat sink temperature:

100°C

Mechanical Characteristics:

Dimensions: 210x145x91
 Connector: 2x23 Ampseal
 Environmental Protection: IP65
 Available with Al baseplate or finned Heatsink

I/O

N° 21 Digital Inputs
 N° 8 Analogue Inputs
 N° 5 Outputs

MODEL CHART

Supply Voltage: 24V

Model Name	AC Inverter 1 Max Arms(2')	AC Inverter 2 Max Arms(2')	Max Power (2')
AC-M1 24V 350A	350 Arms	-	9.7 kVA
AC-M1 24V 450A	450 Arms	-	12.5 kVA
AC-M1 24V 650A	600 Arms	-	16.6 kVA

Supply Voltage: 36/48V

Model Name	AC Inverter 1 Max Arms(2')	AC Inverter 2 Max Arms(2')	Max Power (2')
AC-M1 36/48V 375A	375 Arms	-	20.8 kVA
AC-M1 36/48V 500A	500 Arms	-	27.5 kVA

Supply Voltage: 72/80V

Model Name	AC Inverter 1 Max Arms(2')	AC Inverter 2 Max Arms(2')	Max Power (2')
AC-M1 72/80V 350A	350 Arms	-	32.3 kVA
AC-M1 72/80V 450A	450 Arms	-	41.6 kVA

