

# Application Solution - Low Voltage

Dart Controls offers DC drives specifically suited for applications where the source power is something other than line voltage. These applications are typically found on portable equipment, truck mounted equipment, material handling and solar powered applications. You can choose drives to be used with brush or brushless DC motors.

## PWM DRIVES FOR BRUSH MOTORS

The 65E Series from Dart uses 12-36Vdc source power to control low voltage PMDC brush motors. The 65E10 comes in both chassis (10A-60A models) and our **NEW** NEMA 4X wash down model (10A only). All models include high switching frequency for quiet operation (this also extends battery charge life where used); adjustable motor soft start; adjustable MIN, MAX, IR COMP and CURRENT LIMIT.

**NEW 65E10E**  
**NEMA 4X**



## DRIVES FOR BLDC MOTORS

The 700 Series from Dart also use low voltage source power (12-48Vdc) but are designed for use with brushless DC motors. BLDC may be a consideration when the motor is difficult to access for service or when the equipment is remotely located. The BLM (Brushless MicroDrive) is a BLDC version of Dart's popular MicroDrive digital DC drive series. All models include high switching frequencies for quiet operation (excellent for medical equipment such as pumps, fans and suction devices)



Dart Controls, Inc. 5000 W. 106<sup>th</sup> Street Zionsville, IN USA  
sales@dartcontrols.com (317) 873-5211 www.dartcontrols.com



## SPECIFICATIONS

	65E10 / 65E10E	65E20	65E40	65E60	700BDC Series	730BDC Series	BLM701P
Voltage In	12-36Vdc				12-48Vdc		
Voltage Out	0 – Source Voltage						
HP <sup>1</sup> / Watts Max	1/50 – 1/2 HP	1/8 – 1HP	1/4 – 2HP	1/2 – 3HP	240W	430W	380W
Enclosure	Chassis / NEMA 4X	Chassis	Chassis	Chassis	Chassis	Chassis	NEMA 4X <sup>2</sup>
Input (Speed)	Pot / 0-10Vdc						(Note 3)
Overload (1 min)	150%						
Adjustments	MIN and MAX Speed; IR COMP; ACCEL; CUR LIM						(see manual)
Regulation / Range	± 1% / 50:1						± 1/2 RPM / 50:1+

<sup>1</sup>Approximate <sup>2</sup>When installed in NEMA 4X enclosure <sup>3</sup> Pushbutton (Manual) / Optional 4-20mA (Automatic)

## TYPICAL APPLICATIONS

- Truck mounted salt spreader
- Portable conveyors
- Material handling carts
- Medical pump / vacuum
- Solar powered pumps
- Truck mounted salt solution pump
- Auger feeders (agriculture)
- Wildlife / game feeders
- Truck mounted reels
- Drywall texture sprayers

## OTHER PRODUCTS FROM DART



Digital DC Drives



Motors to 700HP



AC Drives

## FOR PRICE AND AVAILABILITY

[sales@dartcontrols.com](mailto:sales@dartcontrols.com)

**(317) 873-5211**

[www.dartcontrols.com](http://www.dartcontrols.com)