

DC Input, Microprocessor-based 1Q PWM

Drive	Input Voltage Range (VDC)	Output Voltage Range (VDC) ****	Cont. Armature Current	1 Min Peak Armature Current	HP Rating @ 12 VDC Output	HP Rating @ 24 VDC Output	Enclosure	Reversing *****	Field Supply (VDC)	UL Listed 	CSA 	CE TUV 
DC1.5-12	8 - 16	12	1	1.5	1/100 - 1/60	-	CHASSIS	-	-	-	-	-
DC2.0-12	8 - 16	12	1	2	1/100 - 1/45	-	CHASSIS	-	-	-	-	-
DC1.5-24	16 - 32	24	1	1.5	-	1/50 - 1/30	CHASSIS	-	-	-	-	-
DC6-12/24	12 / 24	Up to 95% of input	6	-	1/100 - 1/30	1/50 - 1/15	CHASSIS	-	-	-	-	-

**** The maximum output voltage is equal to the input voltage - 1 VDC. The reverse polarity diode protection can be removed so maximum output voltage equals the input voltage.
 ***** See DC30-4Q Series (page 27) for a PWM low voltage regenerative drive that can reverse on-the-fly.

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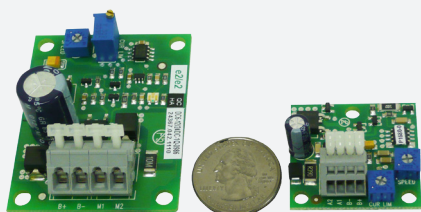
Minarik Drives' new micro-based micro-sized drives are changing the way OEMs look at small low voltage DC motor and drive applications. These incredibly small microprocessor based drives provides both speed control and current limit at a low cost.

OEMs are implementing these drives in applications that did not traditionally use a drive. Many small low voltage DC motors are run directly off a power supply or battery. This method does not provide efficient speed control or reasonable current limit, two critical items that are achieved by this new line of drives. The drive pays for itself when it protects the motor just once from burning up because of a jam. IR comp can be customized for OEMs to allow for much better speed control and regulation compared to systems not using a drive.

The drives contain Speed and Current Limit trim pots on the board. These units can also control speed with a remote pot by ordering the drive with the onboard speed pot removed and replaced with a header. A diode is included on the drive to protect against damage from hooking the drive up to a battery or power supply backwards.

The small size and low cost of these drives make them a great choice for OEMs using small geared and non-geared DC motors. Review the HTL Series (page 22) for applications that require a 115 or 230 VAC input.

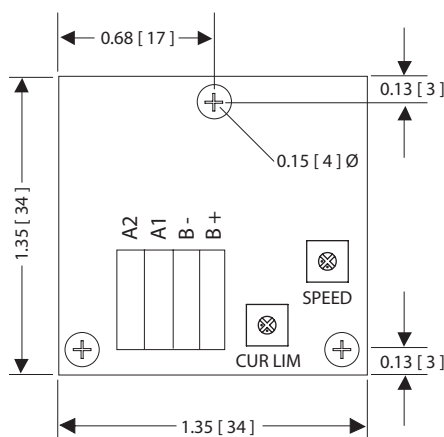
See page 53 for an in-depth comparison of the different low voltage drives.



DC6-12/24

DC1.5-12
DC1.5-24
DC2.0-12

DC1.5-12, DC1.5-24 & DC2.0-12 DIMENSIONS



Height: 1.00 [25]

All dimensions in inches [millimeters]

Dimensions of drives not shown above can be found on page 59.

FEATURES

- **Compact footprint:** Fits in places where you never thought a drive could. Custom round PCB's are available to mount directly on the back of a motor.
- **Low voltage motor operation:** Designed for 12 and 24 VDC motors.
- **User adjustable calibration pots:** Speed and Current Limit.
- **Current Limit:** Limits the torque so gears are not stripped in an overload situation.
- **Cage clamp terminal block:** Quick and easy wire terminations reduce installation time.
- **Microprocessor based design:** Allows quick turnaround for custom units.
- **Reverse polarity protection:** The drive is not damaged when connected to the battery or power supply backwards.
- **Ideal for battery powered equipment:** Maintains both set and/or variable speed control even as battery voltage declines. Extends total running time of equipment.
- **-0964:** Spec models ending in -0964 allow for the connection of a remote speed potentiometer, replacing the SPEED trim pot on the board.
- **RoHS:** Models DC1.5-12, DC1.5-24, DC2.0-12 and DC6-12/24 are RoHS compliant.