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DR Series

Drive Racks

- Plug-in drives
- Rack-mount design
- Brush, brushless, or stepper
- Variety of amplifier power
- Integral power supply
- Variety of form factors
- Integral circuit breaker switch



DR300



DR500

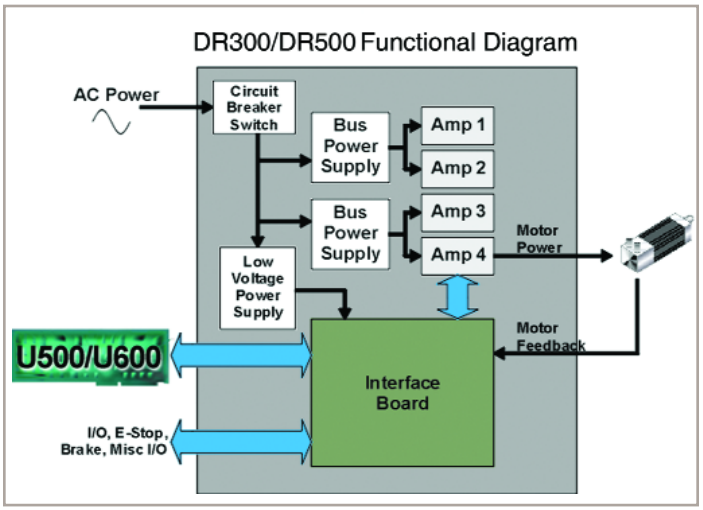


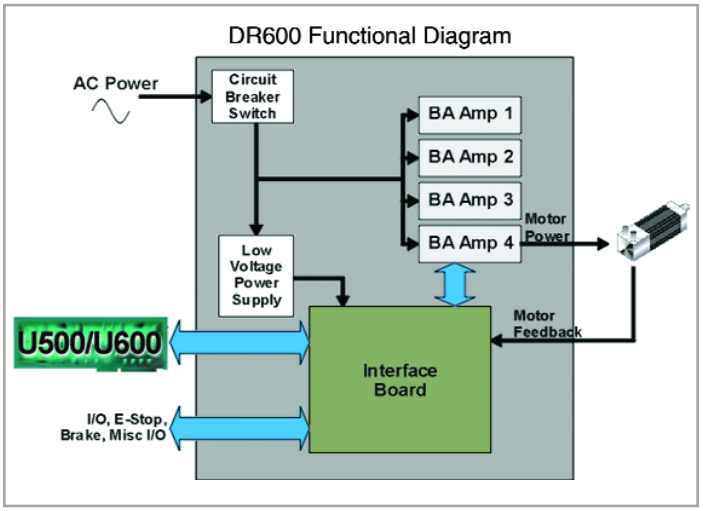
DR600

The Aerotech family of drive rack systems complements our UNIDEX 500 and UNIDEX 600 controllers. A drive-rack chassis can be configured with up to 4 amplifiers in mixed combinations of brushless, brush, or stepper control.

DR300 and DR500 drive-rack chassis have one or two internal power supplies with internal isolation transformers to accommodate a wide range of input power. The DR600 utilizes BA series amplifiers that have their own integral power supplies. All drive racks have integral circuit breaker switches for over-current protection and convenient power disconnect.

Drive-rack options include shunt regulators, brake control, and E-stop circuitry. Special drive racks can be designed.





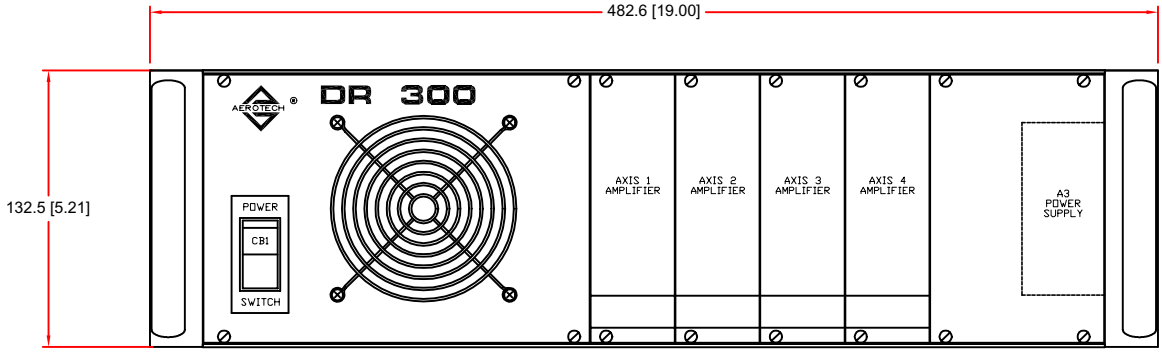
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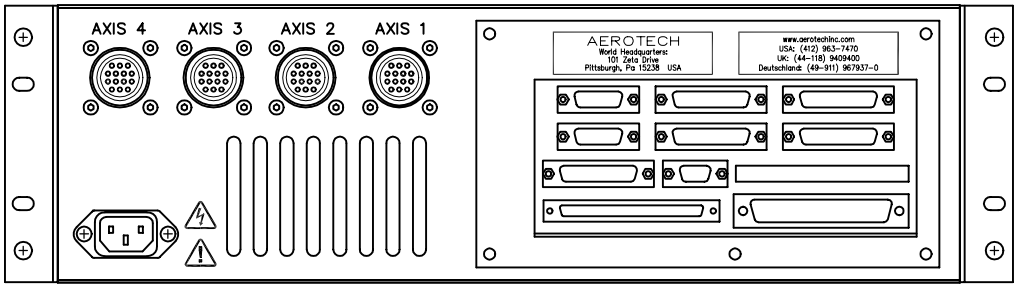
DR300 Series SPECIFICATIONS and DIMENSIONS

- Low profile
- Plug-in drives
- Rack-mount design
- Brush, brushless, or stepper
- Variety of amplifier power
- Integral power supply





Front Panel View



Rear Panel View

Note: DR300 Rack Depth, Not Including Handles or Connectors is 306.1 [12.05]

Basic Model: DR300 Series Drive Chassis

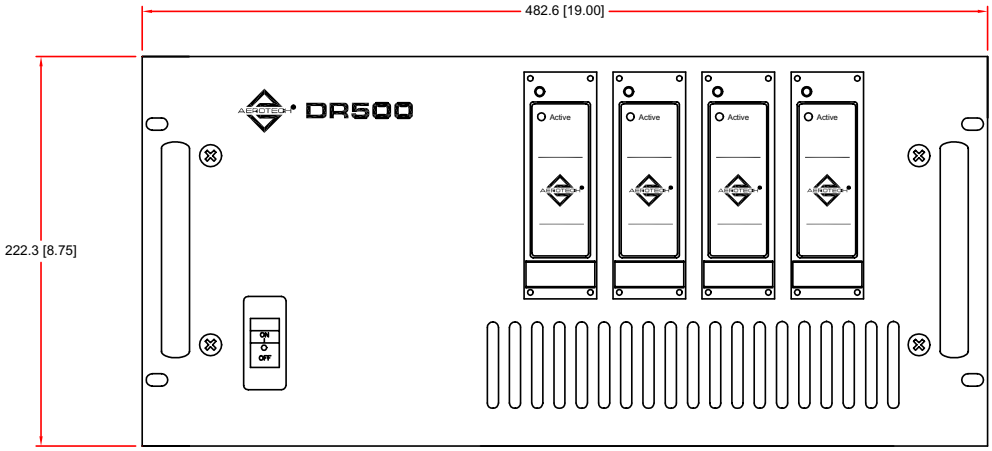
Dimensions - Millimeters [Inches]

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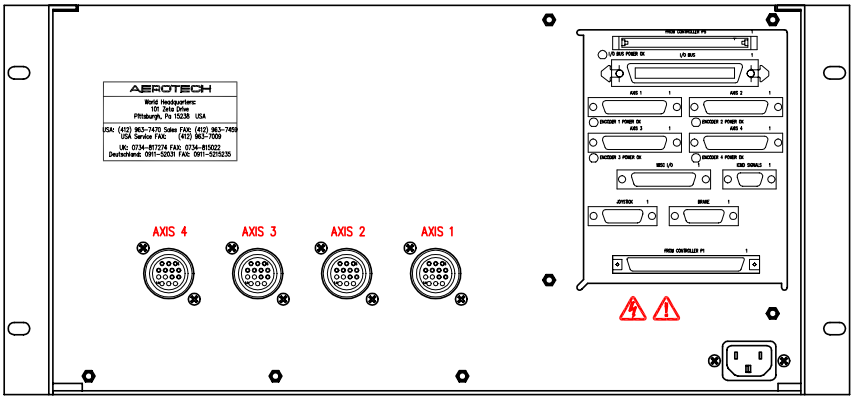
DR500 Series SPECIFICATIONS and DIMENSIONS

- Plug-in drives
- Rack-mount design
- Brush, brushless, or stepper
- Integral power supply
- Optional brake control circuitry





Front Panel View



Note: DR500 Rack Depth Not Including Handles or Connectors is 193.0 [7.60]

Rear Panel View

Basic Model: DR500 Series Drive Chassis

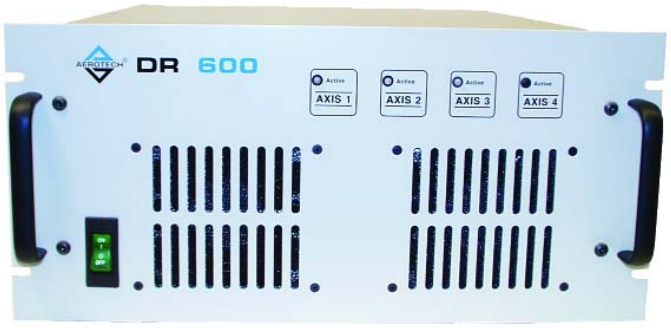
Dimensions - Millimeters [Inches]

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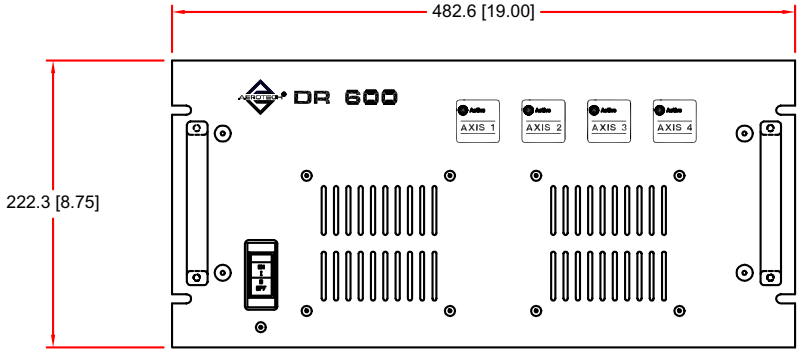
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DR600 Series SPECIFICATIONS and DIMENSIONS

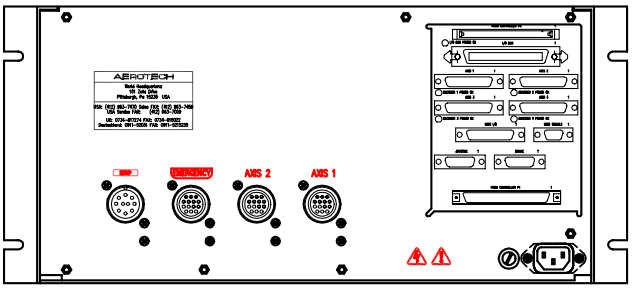
- Uses BA series amplifiers
- Higher power range than DR300 and DR500
- Rack-mount design
- Optional brake control circuitry
- Optional E-Stop circuitry



Amplifier	BA10	BA20	BA30
Control Type	Brushless		
Output Type	PWM		
Continuous Current (Apk-pk)	5	10	15
Peak Current (Apk-pk)	10	20	30



Front Panel View



Rear Panel View

Basic Model: DR600 Series Drive Chassis

Dimensions - Millimeters [Inches]

Note: DR600 Rack Depth Not Including

Handles or Connectors is 485.7 [19.12]

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Drive Rack Amplifier SPECIFICATIONS

- Low profile
- Plug-in drives
- Rack-mount design
- Brush, brushless, or stepper
- Variety of amplifier power
- Integral power supply





Amplifier	AM16007	DS16020	DS16030	AS32020	AS32030	AS3005
Control Type	Microstepping	Brush	Brush	Brushless	Brushless	Brushless
Output Type	PWM	PWM	PWM	PWM	PWM	Linear
Output Voltage (VDC)	40-160	40-160	40-160	40-160	40-160	30
Continuous Current	7.0	10	15	10	15	2.5
Peak Current	7.5	20	30	20	30	5
Minimum Load	2 mH	2 mH	2 mH	2 mH	2 mH	4 ohms
Operating Temperature	50°C	50°C	50°C	50°C	50°C	50°C
Protection	Short Circuit Protection, Overload Protection, Low Level Power Supply Detection and Fuse					Fused
Switching Frequency	20 KHz	20 KHz	20 KHz	20 KHz	20 KHz	N/A

Note: Continuous current must be derated by 50% when used with DR300.

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DR300 Series ORDERING INFORMATION

Ordering Example

DR300	R	-A	-40	-80	/DS16020C	/DS16020C	/AS32020C		/SHUNT500
Base	Package	Input	Vbus1	Vbus2	Amp1	Amp2	Amp3	Amp4	Options
	R	A	0	0	AM16007C-Fn	AM16007C-Fn	AM16007C-Fn	AM16007C-Fn	BRAKE
		B	30	30	DS16020C-Fn	DS16020C-Fn	DS16020C-Fn	DS16020C-Fn	SHUNT500
		C	40	40	DS16030C-Fn	DS16030C-Fn	DS16030C-Fn	DS16030C-Fn	
		D	80	80	AS32020C-Fn	AS32020C-Fn	AS32020C-Fn	AS32020C-Fn	
			160	160	AS32030C-Fn	AS32030C-Fn	AS32030C-Fn	AS32030C-Fn	
			160LT	160LT	AS3005LC-Fn	AS3005LC-Fn	AS3005LC-Fn	AS3005LC-Fn	

DR300 Drive Rack Chassis

DR300R	Rack mount amplifier chassis with integral DC power supply and interconnection panel for all controller signals

Power Input

-A	115 VAC (50/60 Hz)
-B	230 VAC (50/60 Hz)
-C	100 VAC (50/60 Hz)
-D	208 VAC (50/60 Hz)

Bus Voltage (Vbus1)

-0	Do not wire
-30	30 VDC (100 W power supply)
-40	40 VDC (175 W power supply)
-80	80 VDC (325 W power supply)
-160	160 VDC (325 W power supply)
-160LT	160 VDC (750 W power supply; does not include transformer; 115 VAC input only)

Bus Voltage (Vbus2)

-0	Do not wire
-30	30 VDC (100 W power supply)
-40	40 VDC (175 W power supply)
-80	80 VDC (325 W power supply)
-160	160 VDC (325 W power supply)
-160LT	160 VDC (750 W power supply; does not include transformer; 115 VAC input only)

DR300 Amplifiers

AM16007C-Fn	Microstepping motor driver, 160 V, 7 A cont. 7 A peak, 20 kHz PWM, 3U height
DS16020C-Fn	DC servomotor driver, 160 V, 5 A cont., 20 A peak, 20 kHz PWM, 3U height
DS16030C-Fn	DC servomotor driver, 160 V, 7.5 A cont., 30 A peak, 20 kHz PWM, 3U height
AS32020C-Fn	Brushless motor driver, 320 V, 5 A cont., 20 A peak, 20 kHz PWM, 3U height
AS32030C-Fn	Brushless motor driver, 320 V, 7.5 A cont., 30 A peak, 20 kHz PWM, 3U height
AS3005LC-Fn	Brushless motor driver, 30 V, 1.5 A cont., 5 A peak, linear, 3U height
Note:	Specify fuse value “Fn” for each amplifier

Options

BRAKE-z	Brake control logic and power supply; specify which axis “z” as 1, 2, 3 or 4
SHUNT500	Shunt regulator for drive racks

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DR500 Series ORDERING INFORMATION

Ordering Example

DR500	R	-A	-40	-80	/DS16020C	/DS16020C	/AS32020C		/SHUNT500
Base	Package	Input	Vbus1	Vbus2	Amp1	Amp2	Amp3	Amp4	Options
	R	A	0	0	AM16007C-Fn	AM16007C-Fn	AM16007C-Fn	AM16007C-Fn	BRAKE
	S	B	30	30	DS16020C-Fn	DS16020C-Fn	DS16020C-Fn	DS16020C-Fn	SHUNT500
		C	40	40	DS16030C-Fn	DS16030C-Fn	DS16030C-Fn	DS16030C-Fn	
		D	80	80	AS32020C-Fn	AS32020C-Fn	AS32020C-Fn	AS32020C-Fn	
			160	160	AS32030C-Fn	AS32030C-Fn	AS32030C-Fn	AS32030C-Fn	
			160LT	160LT	AS3005LC-Fn	AS3005LC-Fn	AS3005LC-Fn	AS3005LC-Fn	

DR500 Drive Rack Chassis

DR500R	Rack-mount amplifier chassis with integral DC power supply and interconnection panel for all controller signals
DR500S	Desktop amplifier chassis with integral DC power supply and interconnection panel for all controller signals

Power Input

-A	115 VAC (50/60 Hz)
-B	230 VAC (50/60 Hz)
-C	100 VAC (50/60 Hz)
-D	208 VAC (50/60 Hz)

Bus Voltage (Vbus1)

-0	Do not wire
-30	30 VDC (100 W power supply)
-40	40 VDC (175 W power supply)
-80	80 VDC (325 W power supply)
-160	160 VDC (325 W power supply)
-160LT	160 VDC (750 W power supply; does not include transformer; 115 VAC input only)

Bus Voltage (Vbus2)

-0	Do not wire
-30	30 VDC (100 W power supply)
-40	40 VDC (175 W power supply)
-80	80 VDC (325 W power supply)
-160	160 VDC (325 W power supply)
-160LT	160 VDC (750 W power supply; does not include transformer; 115 VAC input only)

DR500 Amplifiers

AM16007C-Fn	Microstepping motor driver, 160 V, 7 A cont. 7 A peak, 20 kHz PWM, 3U height
DS16020C-Fn	DC servomotor driver, 160 V, 10 A cont., 20 A peak, 20 kHz PWM, 3U height
DS16030C-Fn	DC servomotor driver, 160 V, 15 A cont., 30 A peak, 20 kHz PWM, 3U height
AS32020C-Fn	Brushless motor driver, 320 V, 10 A cont., 20 A peak, 20 kHz PWM, 3U height
AS32030C-Fn	Brushless motor driver, 320 V, 15 A cont., 30 A peak, 20 kHz PWM, 3U height
AS3005LC-Fn	Brushless motor driver, 30 V, 3 A cont., 5 A peak, linear, 3U height
Note:	Specify fuse value “Fn” for each amplifier

Options

BRAKE-z	Brake control logic and power supply; specify which axis “z” as 1, 2, 3 or 4
SHUNT500	Shunt regulator for drive racks

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DR600 Series ORDERING INFORMATION

Ordering Example

DR600	R	-A	/BA10-Vbus	/BA10-Vbus	/BA20-Vbus	/BA20-Vbus	/BRAKE
Base	Package	Input	Amp1	Amp2	Amp3	Amp4	Options
	R	A	BA10-Vbus	BA10-Vbus	BA10-Vbus	BA10-Vbus	BRAKE-z
		B	BA20-Vbus	BA20-Vbus	BA20-Vbus	BA20-Vbus	ESTOP2
		C	BA30-Vbus	BA30-Vbus	BA30-Vbus	BA30-Vbus	ESTOP3-e
		D					

DR600 Drive Rack Chassis

DR600R	Rack mount amplifier chassis with integral DC power supply and interconnection panel for all controller signals

Power Input

-A	115 VAC (Vbus=160) (50/60 Hz)
-B	230 VAC (Vbus=320) (50/60 Hz)
-C	100 VAC (Vbus=140) (50/60 Hz)
-D	208 VAC (Vbus=290) (50/60 Hz)

DR600 Amplifiers

BA10-Vbus	BA series amplifier, 5 A cont., 10 A peak, 20 kHz PWM servo amplifier
BA20-Vbus	BA series amplifier, 10 A cont., 20 A peak, 20 kHz PWM servo amplifier
BA30-Vbus	BA series amplifiers, 15 A cont., 30 A peak, 20 kHz PWM servo amplifier

Options

BRAKE-z	Brake control logic and power supply; specify which axis “z” as 1, 2, 3 or 4
ESTOP2	Internal E-stop circuitry that breaks bus power with remote interface
ESTOP3-e	Internal E-stop circuitry that breaks motor power with remote interface. Specify the number of axes “e” as 1, 2, 3 or 4.

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