User Guide for Blade Series Outlets

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Photo by Studio Dearborn

Docking Drawer Project Planning Guide

Plan your Project Plan your Docking Drawer Project at any Time

Docking Drawer Blade Series outlets can be installed at any point, whether you are undergoing a complete renovation or simply want to add an in-drawer outlet to an existing drawer. Although the installation process may look a little different depending on your situation. Here are some tips:

Plan at **any** time

Beginning of project

It's easiest to start planning before you begin your project as the electrician can rough in electrical where needed.

Middle of project

It's easy to install in the middle of your project when the countertop is off and the area behind the drawer box is still easily accessible.

End of project

It's still easy to install at the end of your project when the countertop is on. It will just be a tighter space to work in and you will have to remove the drawer boxes to access the back cabinet or furniture wall.

Install at **any** place

At the Factory

The cabinet manufacturer can install at the factory.

In the Shop

The cabinet maker or electrician can install in the shop.

On Location

The tradesperson or homeowner can install on location.

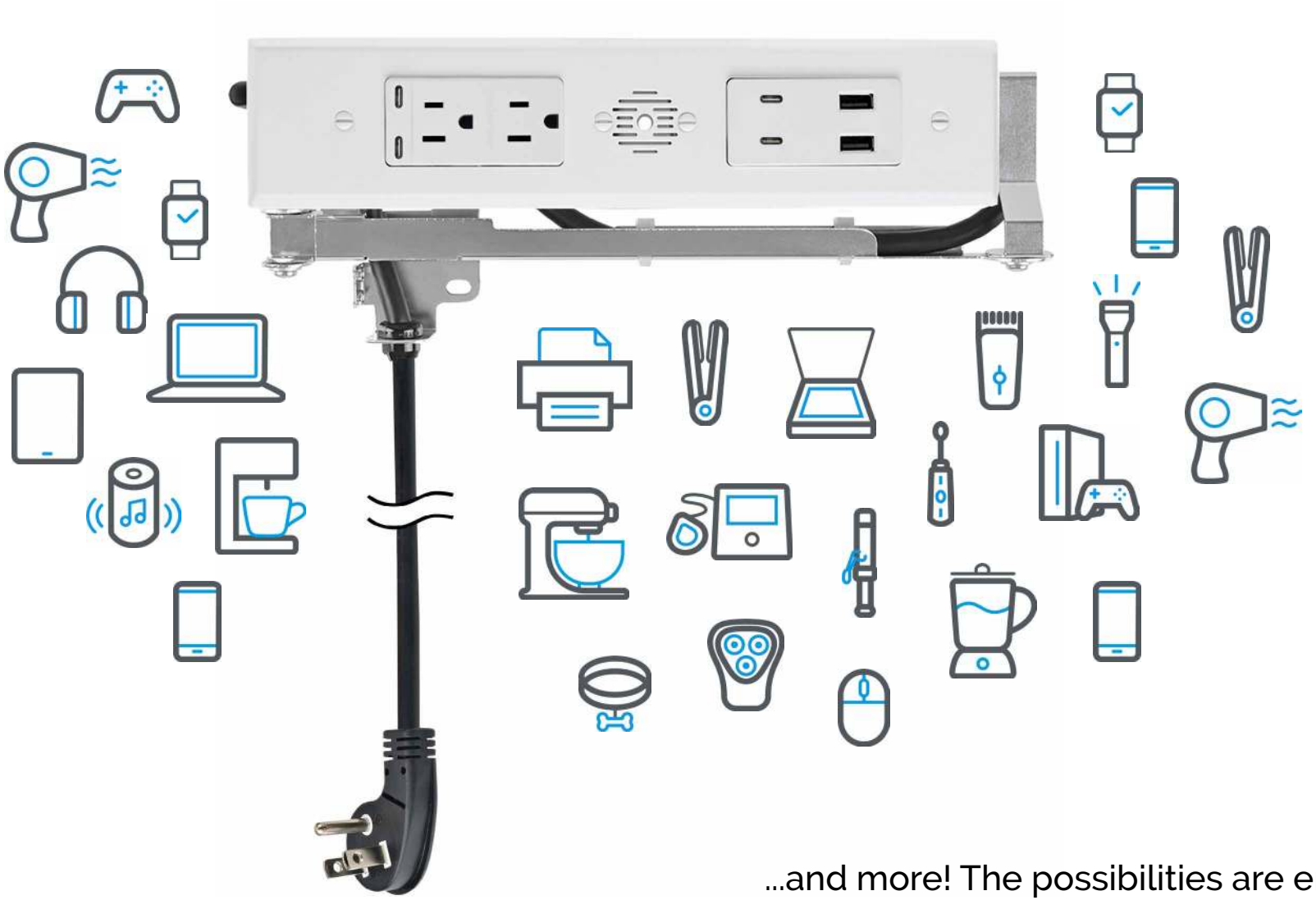
How to Get Started

Specifying a Docking Drawer into any type of project is simple. You can specify an outlet in 3 ways:
By Drawer Type
By Room
By Part Number

Power Up Your Showroom

Easily display Docking Drawer Blade Series outlets in any showroom in minutes with a non-functioning mockup outlet kit.

Connect any Device Clear Device Clutter from your Life



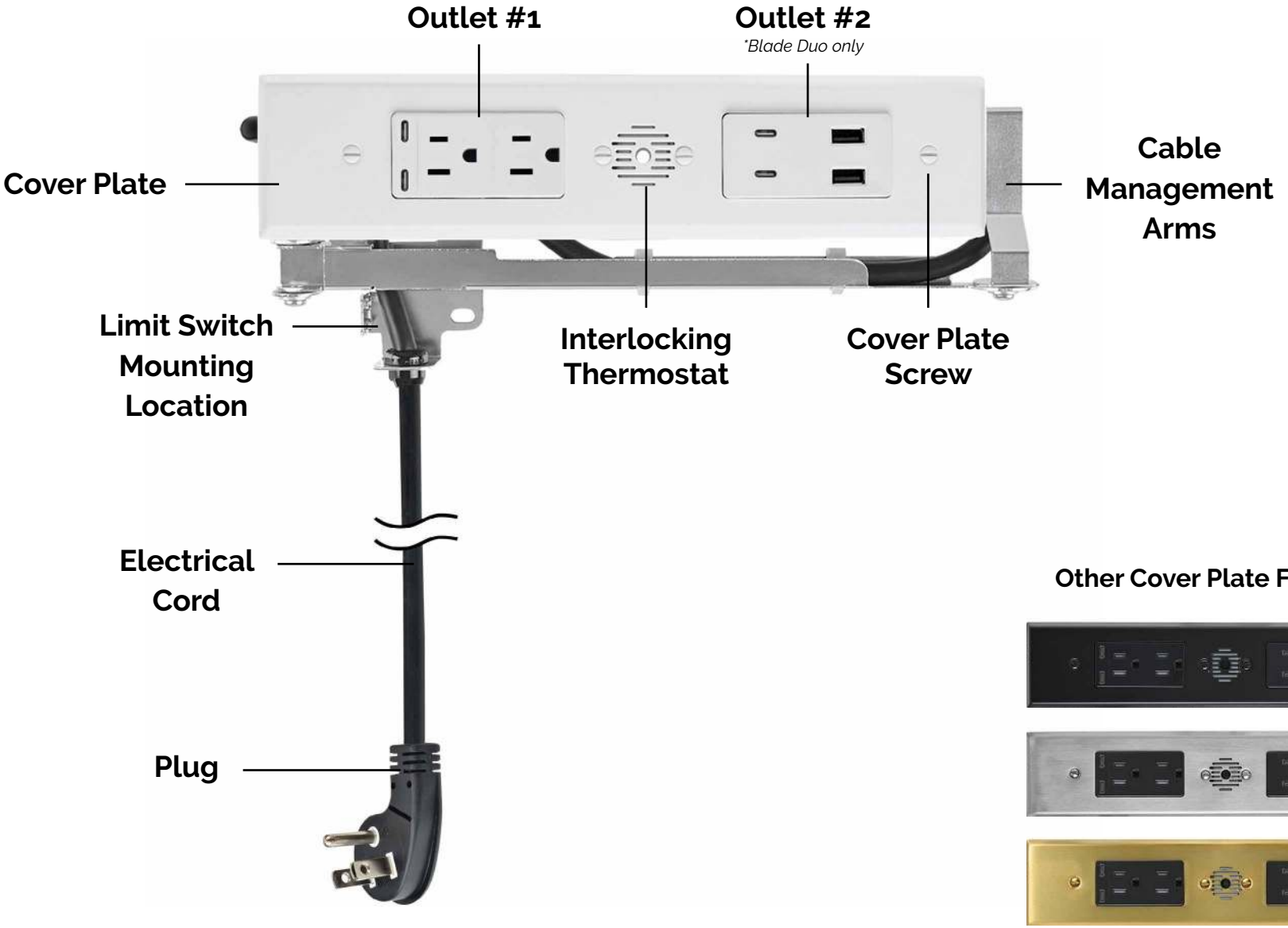
...and more! The possibilities are endless.

Blade Series Features

Electrical Certification	ETL Listed for use in the US and Canada. Outlets 1514-288 & 1514-180 (are certified for use in Canada). All other Blade Series outlets are ETL Listed for use in Canada when installed with an Interlock Outlet* that de-energizes the outlet when the drawer starts to close **(sold separately)*
Interlocking Safety Features	The Interlock Thermostat de-energizes the outlet when the temperature exceeds 120°F (49°C). 15 amp Safety Interlock Outlet with Blade Limit Switch* uses a limit switch to de-energize the outlet when the drawer starts to close. **(sold separately)*
Electrical Connection	4 1/2' cord with a NEMA 5-15P plug (All 15 amp Blade Series outlets)
Wire Gauge	14 AWG wire cable (All 15 amp Blade Series outlets)
Cable Protection	Ultra flexible cable jacket and cable strain reliefs prevent tension and wear
Outlet Features	Featuring a variety of configurations including USB-C, USB-A, and AC and can connect between 2-8 devices. All AC outlets are tamper resistant.
Product Testing	Assemblies are cycle tested over 500,000 times to ensure a long life of safe operation
Cover Plate Finishes	White, Black, Stainless Steel, and Brass
Warranty	5 Years
Country of Origin	Made in Mexico
Service	If needed, the outlet can be easily separated from the drawer box for maintenance or service

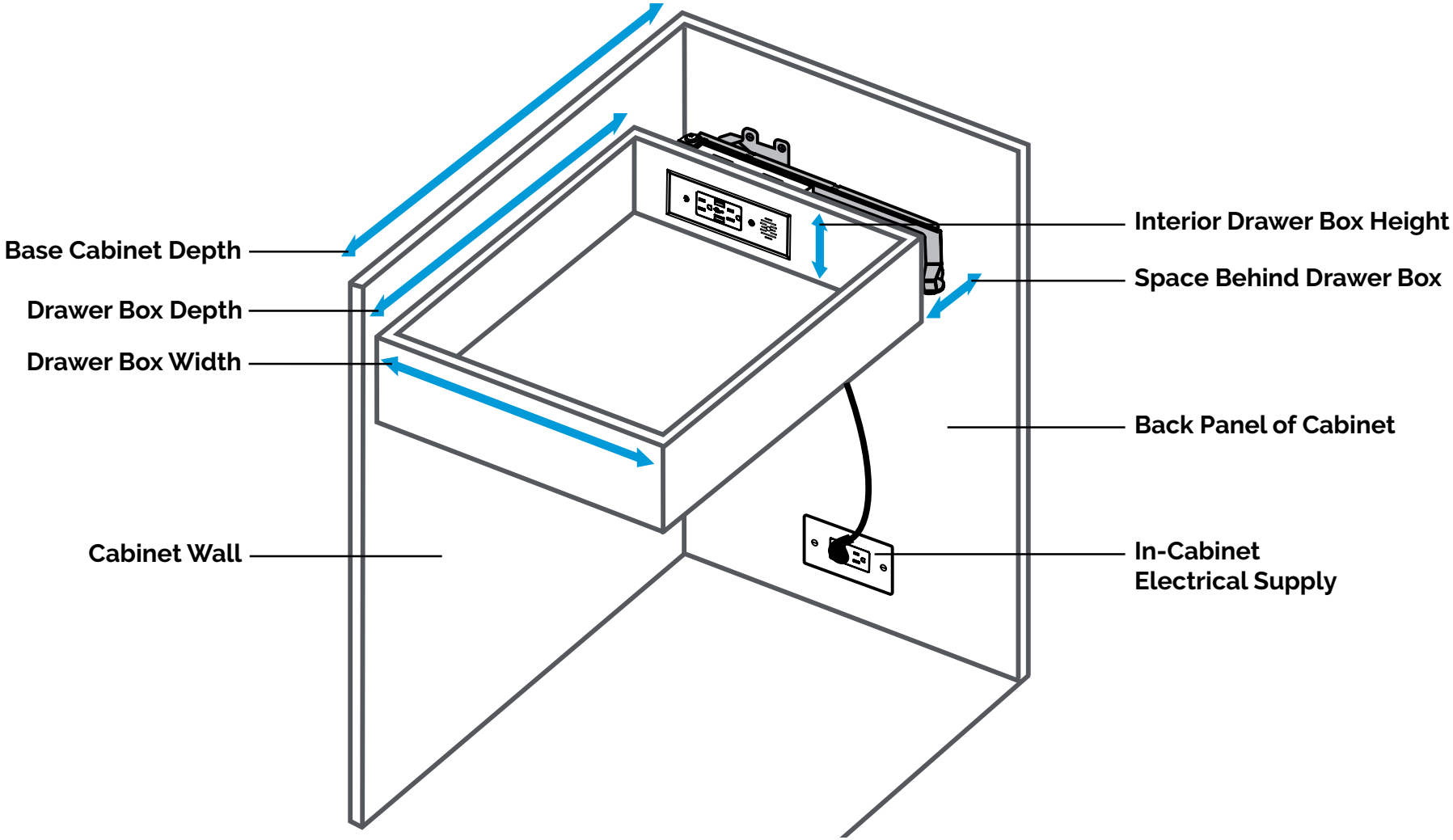
How to Choose a Docking Drawer Outlet

Meet the Docking Drawer Blade Outlet Anatomy



Other Cover Plate Finishes

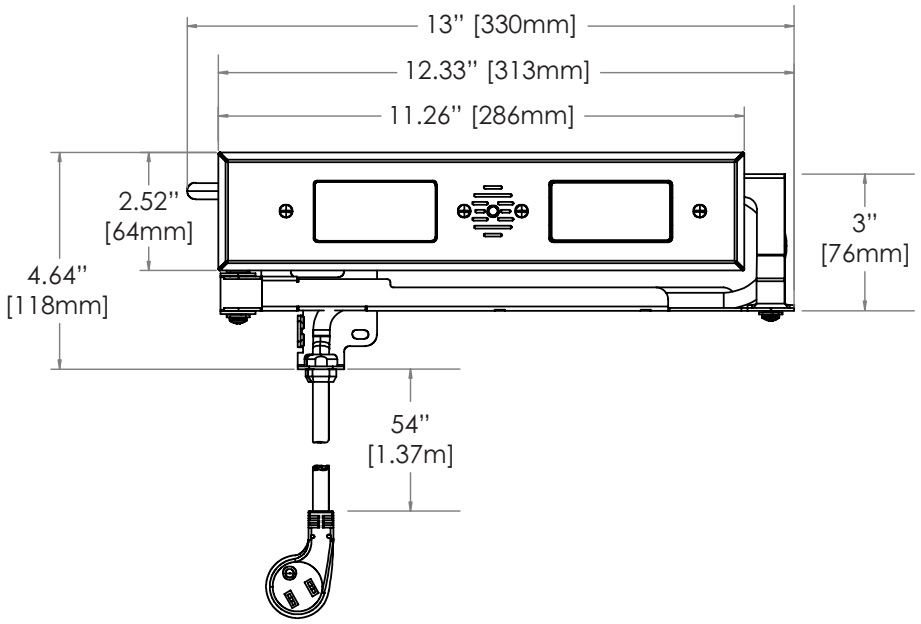
Your Cabinet Key Components to Understand



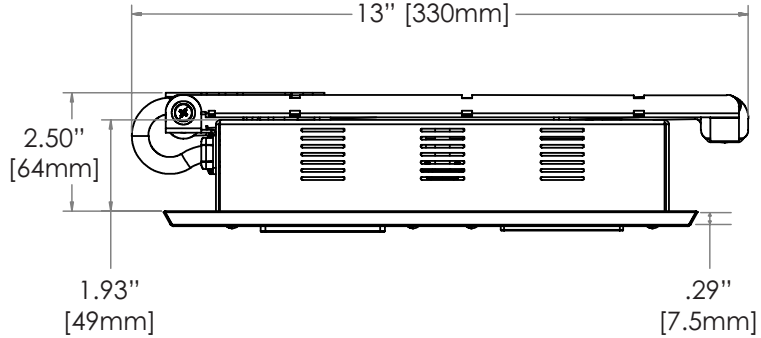
Docking Drawer Blade Duo Outlet Dimensions

Outlet Width	13” (330mm)
Outlet Height	4.64” (118mm)
Outlet Depth	2.5” (64mm)
Receptacle Box Depth	1.93” (49mm)
Cover Plate Height	2.52” (64mm)
Cover Plate Width	11.26” (286mm)
Cover Plate Thickness	.29" (7.5mm)
Cable Management Arms Height	3" (76mm)
Cord Length (15 amp)	54" (1.37m) *10' cord available*
Cord Length (20 amp)	36" (.9m)

Front View



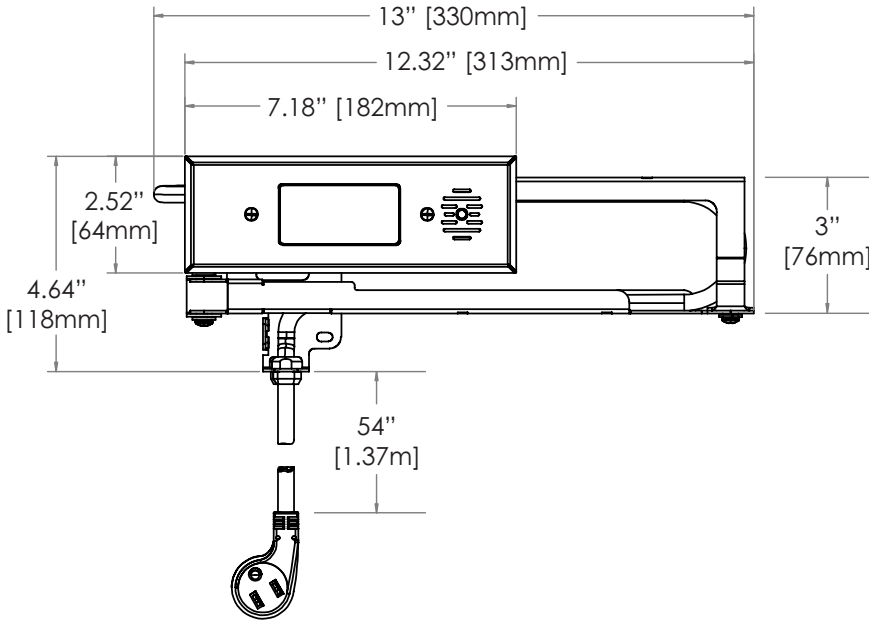
Top View



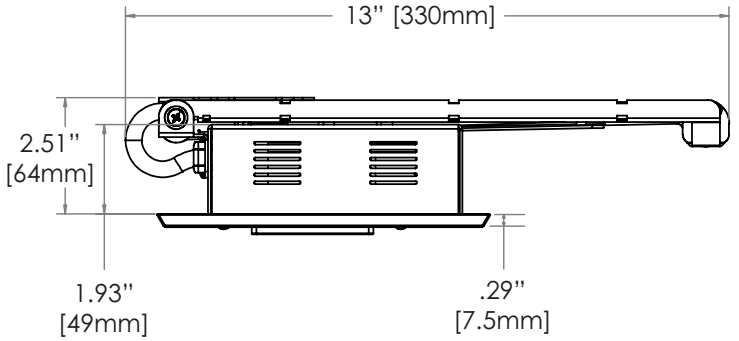
Docking Drawer Blade Outlet Dimensions

Outlet Width	13” (330mm)
Outlet Height	4.64” (118mm)
Outlet Depth	2.5” (64mm)
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Front View

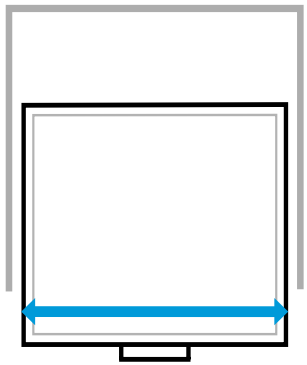


Top View



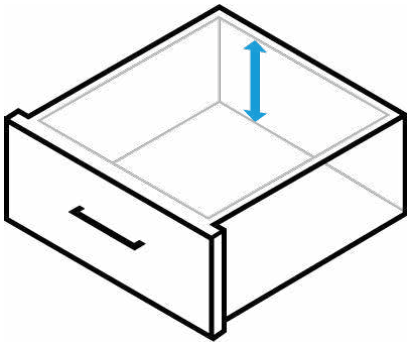
Step 1: Measure the Drawer Box 4 Key Measurements Needed

1



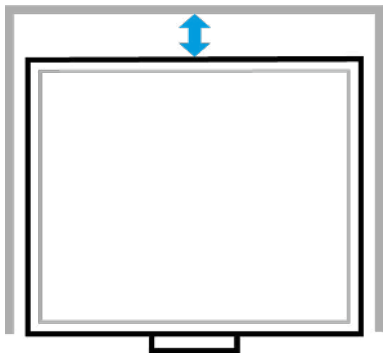
Drawer Box Width (Outer Dimension)

2



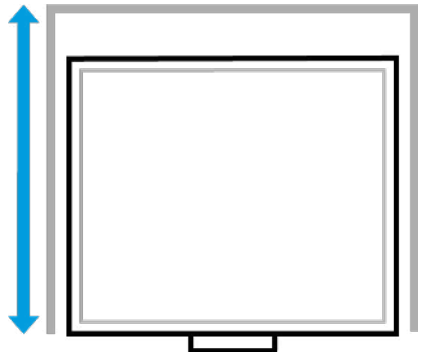
Interior Drawer Box Height

3



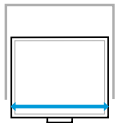
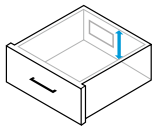
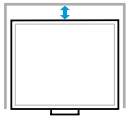
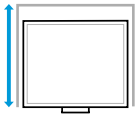
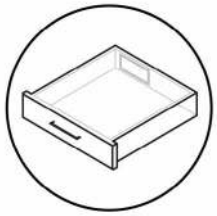
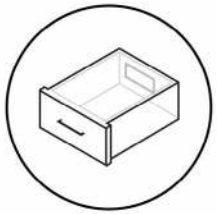
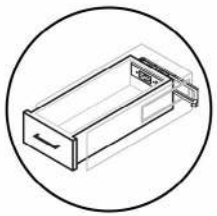
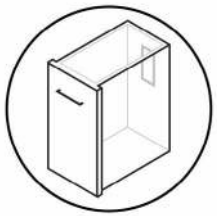
Space Behind the Drawer Box

4

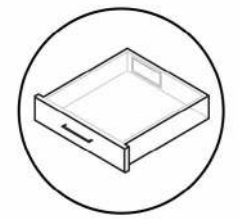
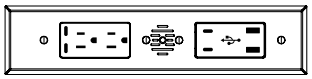
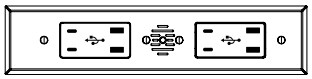
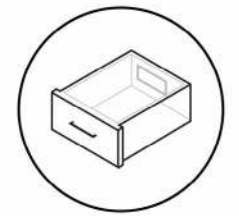
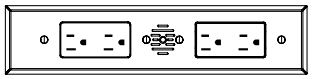
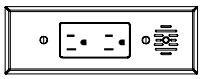
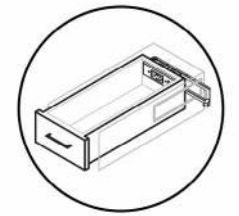
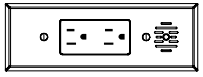
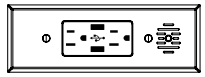
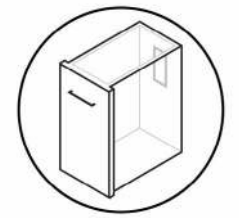
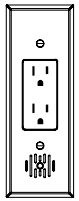


Base Cabinet Depth

Step 2: 4 Types of Drawers Identify if you have a Shallow, Tall, Narrow, Vertical Drawer

	 Minimum Drawer Box Width (Outer Dimension)	 Minimum Interior Drawer Box Height	 Minimum Space Behind Drawer Box	 Maximum Base Cabinet Depth
 **Shallow Drawer** Most often found in kitchens, closets, offices, side tables, entryway tables, and retail projects.	**15″** or more	**3″** or more	**2″** or more	**24″** or less
 **Tall Drawer** Most often found in bathroom vanities and with above-glide mounting.	**13″** or more	**4″** or more	**2″** or more	**24″** or less
 **Narrow Drawer** Most often found in bathroom vanities and with over-glide mounting. Requires a channel to be cut in the cabinet sidewall.	**9″** or more	**4″** or more	**2″** or more	**24″** or less
 **Vertical Drawer** Most often found in bathroom vanities and kitchen pull outs.	**8″** or more	**13″** or more	**2″** or more	**24″** or less

Choose Our Most Popular Outlets By Drawer Type

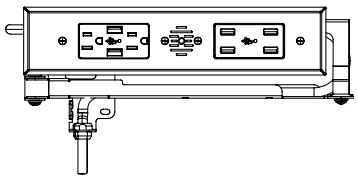
	Application	Most Popular Outlets
 **Shallow Drawer** Most often found in kitchens, closets, offices, side tables, entryway tables, and retail projects.	Kitchen	 **Blade Duo** 1514-278  **Blade Duo** 1514-288
 **Tall Drawer** Most often found in bathroom vanities and with above-glide mounting.	Vanity	 **Blade Duo** 1514-266  **Blade** 1514-160
 **Narrow Drawer** Most often found in bathroom vanities and with over-glide mounting. Requires a channel to be cut in the cabinet sidewall.	Vanity	 **Blade** 1514-160  **Blade** 1514-110
 **Vertical Drawer** Most often found in bathroom vanities and kitchen pull outs.	Vanity	 **Blade** 1514-160

Outlet Orientation Horizontal Mounting

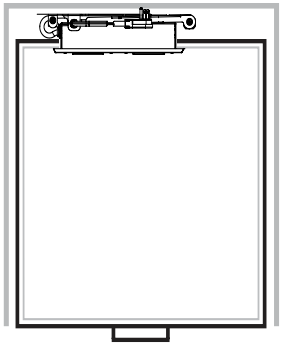
Blade and Blade Duo outlets can be mounted horizontally and facing to the left or right.

Horizontal Left

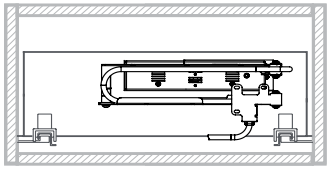
Front View



Top View

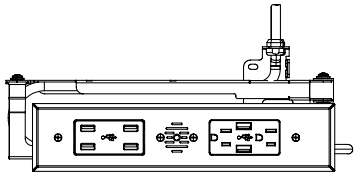


Rear View

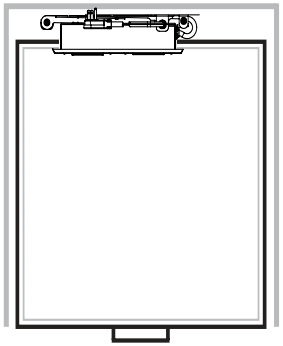


Horizontal Right

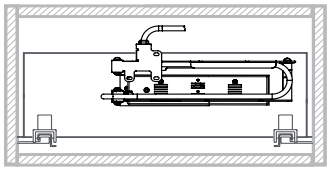
Front View



Top View



Rear View



Pro Tip

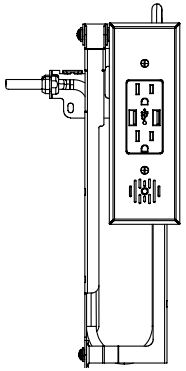
Blade Series outlets can be rotated 360 degrees, facing left, right, up or down, referring to the cord exit point. Ex: Horizontal left - the receptacle box is horizontal and the cord exits on the left side of the outlet.

Outlet Orientation Vertical Mounting

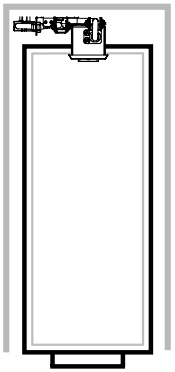
Blade and Blade Duo outlets can be mounted vertically and facing to up or down.

Vertical Up

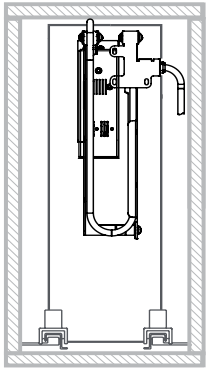
Front View



Top View

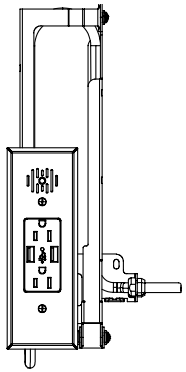


Rear View

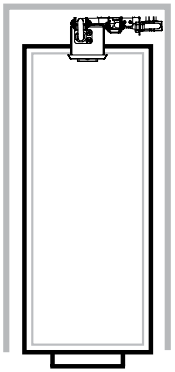


Vertical Down

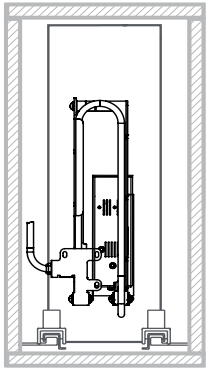
Front View



Top View



Rear View



Pro Tip

Blade Series outlets can be rotated 360 degrees, facing left, right, up or down, referring to the cord exit point. Ex: Vertical Up - the receptacle box is vertical and the cord exits on the top side of the outlet.

Blade Series In-Drawer Outlet Collection

Part Numbers for 15 amp Blade Duo Series Outlets (1514-2xx)

FASTEST - 65W USB-C



Blade Duo 1514-278W
15 amp

○ 1514-278W
● 1514-278B
◍ 1514-278S

(2) 65W USB-C &
(2) 30W USB-C,
(2) USB-A, & (2) AC



Blade Duo 1514-277W
15 amp

○ 1514-277W
● 1514-277B
◍ 1514-277S

(4) 65W USB-C & (4) AC



Blade Duo 1514-217W
15 amp

○ 1514-217W
● 1514-217B
◍ 1514-217S

(2) 65W USB-C,
(2) USB-A, & (4) AC

ALL AC - NO USB



Blade Duo 1514-266W
15 amp

○ 1514-266W
● 1514-266B
◍ 1514-266S

(4) AC

FAST - 30W USB-C



Blade Duo 1514-238W
15 amp

○ 1514-238W
● 1514-238B
◍ 1514-238S

(4) 30W USB-C,
(2) USB-A, & (2) AC



Blade Duo 1514-288W
15 amp

○ 1514-288W
● 1514-288B
◍ 1514-288S

(4) 30W USB-C &
(4) USB-A



Blade Duo 1514-233W
15 amp

○ 1514-233W
● 1514-233B
◍ 1514-233S

(4) 30W USB-C & (4) AC



Blade Duo 1514-213W
15 amp

○ 1514-213W
● 1514-213B
◍ 1514-213S

(2) 30W USB-C,
(2) USB-A, & (4) AC

15 amp Blade Duo Comparison Chart

	1514-278	**1514-266**	**1514-238**	**1514-288**	**1514-277**	**1514-233**	**1514-213**
							
Configuration	(2) 65W USB-C & (2) 30W USB-C, (2) USB-A, & (2) AC	(4) AC	(4) 30W USB-C, (2) USB-A, & (2) AC	(4) 30W USB-C & (4) USB-A	(4) 65W USB-C & (4) AC	(4) 30W USB-C & (4) AC	(2) 30W USB-C, (2) USB-A, & (4) AC
USB-C Ports	4	0	4	4	4	4	2
USB-A Ports	2	0	2	4	0	0	2
AC Outlets	2	4	2	0	4	4	4
15 amp	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Available with 20 amp	2012-278	2012-266	2012-238	N/A	2012-277	2012-233	2012-213
Compatible with Safety Interlock Outlet	Yes with Blade Limit Switch	Yes with Blade Limit Switch	Yes with Blade Limit Switch	N/A	Yes with Blade Limit Switch	Yes with Blade Limit Switch	Yes with Blade Limit Switch
Interlock Safety Feature	Interlocking Thermostat						
Electrical Connection	NEMA 5-15P						
ETL Listed	Yes						
Compatible with Soft Close Guides	Yes						
Finish	Black, White, Stainless Steel, Brass						
Warranty	5 Year						

Part Numbers for 15 amp Blade Series Outlets (1514-1x0)

FASTEST - 65W USB-C



Blade
1514-170W
15 amp

○ 1514-170W
● 1514-170B
◍ 1514-170S

(2) 65W USB-C & (2) AC

SLOW - USB-A



Blade
1514-110W
15 amp

○ 1514-110W
● 1514-110B
◍ 1514-110S

(2) USB-A & (2) AC

FAST - 30W USB-C



Blade
1514-130W
15 amp

○ 1514-130W
● 1514-130B
◍ 1514-130S

(2) 30W USB-C & (2) AC



Blade
1514-180W
15 amp

○ 1514-180W
● 1514-180B
◍ 1514-180S

(2) 30W USB-C
& (2) USB-A

ALL AC - NO USB



Blade
1514-160W
15 amp

○ 1514-160W
● 1514-160B
◍ 1514-160S

(2) AC



Blade
1514-150W
15 amp

○ 1514-150W
● 1514-150B
◍ 1514-150S

(2) AC - GFCI

15 amp Blade Comparison Chart

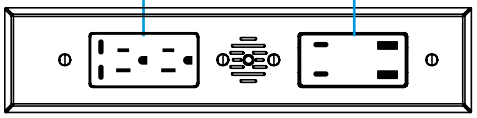
	1514-170	**1514-160**	**1514-180**	**1514-150**	**1514-130**	**1514-110**
						
Configuration	(2) 65W USB-C & (2) AC	(2) AC	(2) 30W USB-C & (2) USB-A	(2) AC GFCI	(2) 30W USB-C & (2) AC	(2) USB-A & (2) AC
USB-C Ports	2	0	2	0	2	0
USB-A Ports	0	0	2	0	0	2
AC Outlets	2	2	0	2	2	2
15 amp	Yes	Yes	Yes	Yes	Yes	Yes
Available with 20 amp	2012-170	2012-160	N/A	2012-150	2012-130	2012-110
Compatible with Safety Interlock Outlet	Yes with Blade Limit Switch					
Interlock Safety Feature	Interlocking Thermostat					
Electrical Connection	NEMA 5-15P					
ETL Listed	Yes					
Narrow Drawer Tip	Yes					
Compatible with Soft Close Guides	Yes					
Finish	Black, White, Stainless Steel, Brass					
Warranty	5 Year					

Outlet Configuration Options for 15 amp Blade Series Outlets

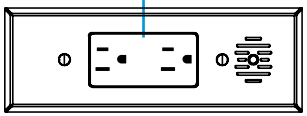
In addition to our 4 top selling outlets, we offer a variety of additional options. Mix and match configurations to create the best solution to fit the needs of your project.

Select a Blade Duo or Blade

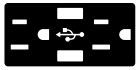
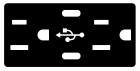
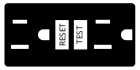
ex: **1514-27**8



ex: **1514-16**0

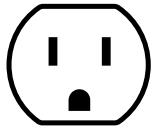


Then, Select Any Outlet

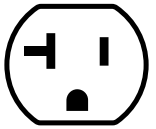
#	Outlet Configuration	Outlet Specifications
1	 (2) USB-A & (2) AC	AC: 15 amps @ 120 VAC USB-A: 3.6 amps @ 5 VDC
3	 (2) 30W USB-C & (2) AC	AC: 15 amps @ 120 VAC USB-C (single port connected to PD device): 3 amps @ 9 VDC (30W) USB-C (single port connected to non-PD device): 3 amps @ 5 VDC (15W) USB-C (both ports connected): 3 amps @ 5 VDC (30W total power)
5	 (2) AC - GFCI	15 amps @ 120 VAC
6	 (2) AC	15 amps @ 120 VAC
7	 (2) 65W USB-C & (2) AC	AC: 15 amps @ 120 VAC USB-C (PD): 65 Watt Shared USB-C (single port connected to PD device): 65W 5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3.25A USB-C (both ports connected to PD devices): 65W total C1/C2: 5V/3A; 9V/3A; 12V/2.5A; 15V/2A; 20V/1.5A
8	 (2) 30W USB-C & (2) USB-A	USB-C (PD) 30 Watt Shared USB-C (single port connected to PD device): 30W max 5V/3A:9V/3A:12V/2.5A; 15V/2A;20V/1.5A USB-C (both ports connected): 15W each port C1:5V/3A C2:5V/3A USB-A (max with one or both ports connected) 12W total 5v/2.4A

How to Choose Between 15 & 20 amp Outlets

15 amp Docking Drawer Blade Series outlets are our most popular configuration. They can be plugged into any outlet and will charge and power every type of device, including hair dryers, cell phones, and more. Need 20 amp solutions? We have you covered as each 15 amp outlet has a 20 amp equivalent.



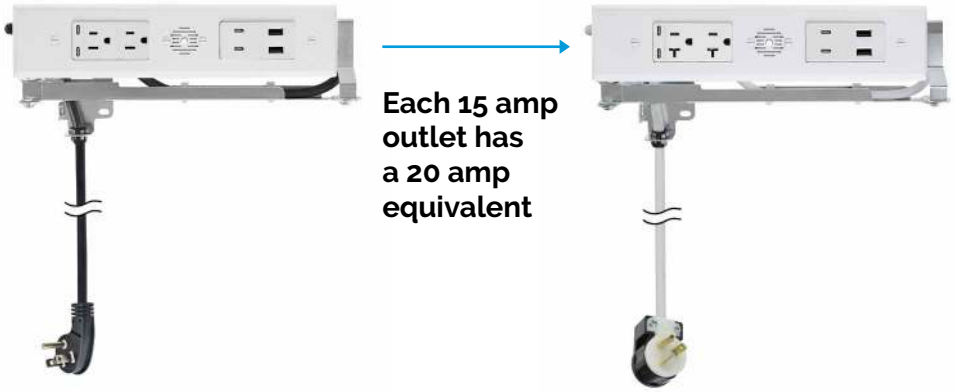
15 amp



20 amp

Variety of Configurations

Choose from 15 amp or 20 amp outlets.



Each 15 amp outlet has a 20 amp equivalent

How do you know if your project requires a 15 amp or 20 amp outlet?

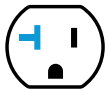
Ask Your Electrician

Your electrician can provide a definite answer on what will work for your project.

Look at the wall receptacle

If your wall receptacle looks like this, specify a 20 amp Blade Series.

20 amp outlets have a T-Shaped prong



Not sure? Specify 15 amp

15 amp Blade Series outlets can function when plugged into 15 or 20 amp wall receptacles.

Pro Tip

15 amp outlets will power any type of devices including hair dryers, printers, mixers and charge every type of device like cell phones, tablets, and laptops. When in doubt whether to specify a Blade Series 15 amp or 20 amp outlet, specify a 15 amp. 15 amp plugs can be plugged into both a 15 amp and a 20 amp outlet, but a 20 amp plug can ONLY be plugged into a 20 amp outlet.

Do I Need a 15 or 20 amp Docking Drawer Outlet?
Learn more here.

Part Numbers for 20 amp Blade Duo Series Outlets (2012-2xx)

FASTEST - 65W USB-C



Blade Duo 2012-278W
20 amp

○ 2012-278W
● 2012-278B
◍ 2012-278S

(2) 65W USB-C &
(2) 30W USB-C,
(2) USB-A, & (2) AC



Blade Duo 2012-277W
20 amp

○ 2012-277W
● 2012-277B
◍ 2012-277S

(4) 65W USB-C & (4) AC

SLOW - USB-A



Blade Duo 2012-211W
20 amp

○ 2012-211W
● 2012-211B
◍ 2012-211S

(4) USB-A, & (4) AC

FAST - 30W USB-C



Blade Duo 2012-238W
20 amp

○ 2012-238W
● 2012-238B
◍ 2012-238S

(4) 30W USB-C,
(2)USB-A, & (2) AC



Blade Duo 2012-233W
20 amp

○ 2012-233W
● 2012-233B
◍ 2012-233S

(4) 30W USB-C & (4) AC

ALL AC - NO USB



Blade Duo 2012-266W
20 amp

○ 2012-266W
● 2012-266B
◍ 2012-266S

(4) AC

Part Numbers for 20 amp Blade Series Outlets (2012-1x0)

FASTEST - 65W USB-C



Blade
2012-170W
20 amp

- ○ 2012-170W
- ● 2012-170B
- ◍ 2012-170S

(2) 65W USB-C & (2) AC

SLOW - USB-A



Blade
2012-110W
20 amp

- ○ 2012-110W
- ● 2012-110B
- ◍ 2012-110S

(2) USB-A & (2) AC

FAST - 30W USB-C



Blade
2012-130W
20 amp

- ○ 2012-130W
- ● 2012-130B
- ◍ 2012-130S

(2) 30W USB-C & (2) AC

ALL AC - NO USB



Blade
2012-160W
20 amp

- ○ 2012-160W
- ● 2012-160B
- ◍ 2012-160S

(2) AC



Blade
2012-150W
15 amp

- ○ 2012-150W
- ● 2012-150B
- ◍ 2012-150S

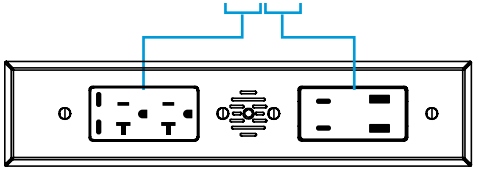
(2) AC - GFCI

Outlet Configuration Options for 20 amp Blade Series Outlets

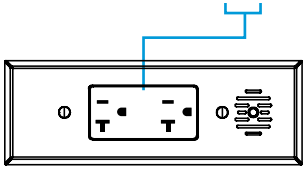
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Select a Blade Duo or Blade

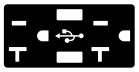
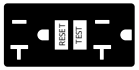
ex: **2012-278**



ex: **2012-160**



Then, Select Any Outlet

#	Outlet Configuration	Outlet Specifications
1	 (2) USB-A & (2) AC	AC: 20 amps @ 120 VAC USB-A: 3.6 amps @ 5 VDC
3	 (2) 30W USB-C & (2) AC	AC: 20amps @ 120 VAC USB-C (single port connected to PD device): 3 amps @ 9 VDC (30W) USB-C (single port connected to non-PD device): 3 amps @ 5 VDC (15W) USB-C (both ports connected): 3 amps @ 5 VDC (30W total power)
5	 (2) AC - GFCI	20 amps @ 120 VAC
6	 (2) AC	20 amps @ 120 VAC
7	 (2) 65W USB-C & (2) AC	AC: 20 amps @ 120 VAC USB-C (PD): 65 Watt Shared USB-C (single port connected to PD device): 65W 5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3.25A USB-C (both ports connected to PD devices): 65W total C1/C2: 5V/3A; 9V/3A; 12V/2.5A; 15V/2A; 20V/1.5A
8	 (2) 30W USB-C & (2) USB-A	USB-C (PD) 30 Watt Shared USB-C (single port connected to PD device): 30W max 5V/3A:9V/3A:12V/2.5A; 15V/2A;20V/1.5A USB-C (both ports connected): 15W each port C1:5V/3A C2:5V/3A USB-A (max with one or both ports connected) 12W total 5v/2.4A

Planning Resources

Planning Resources Project Planning Cards

Project planning cards feature key information on how to include Docking Drawer outlets in a variety of common projects and in a range of orientations and unique applications. Simply click this link to download now.

Project Planning Cards

See how to specify in-drawer outlets into popular applications.



Pro Tip

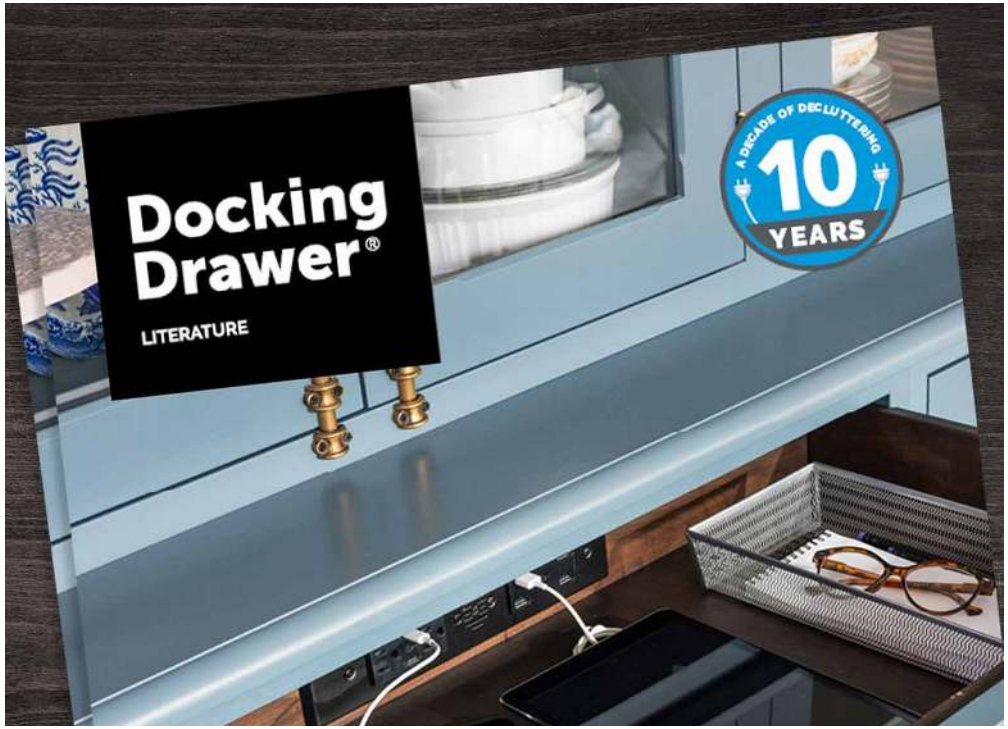
Project Planning Cards are available to download for every outlet at dockingdrawer.com/downloads

Planning Resources Docking Drawer Literature

Our literature visually illustrates Blade Series outlets in lifestyle applications, and highlights product features in a friendly format that's designed for display in showrooms and to share with customers. Simply click this link to download now.

Literature

Order a Docking Drawer Blade Series literature to share with your team and customers.



Pro Tip

More Project Planning Resources are available to download at dockingdrawer.com/downloads

Planning Resources Tear Sheets

We offer tear sheets for every part number, including key details like product dimensions, specifications and other information in a single-page format that's simple to share with project planners. Simply click this link to download now.

Tear Sheets

Download PDF Tear Sheets to easily share product summaries with your team.



Pro Tip

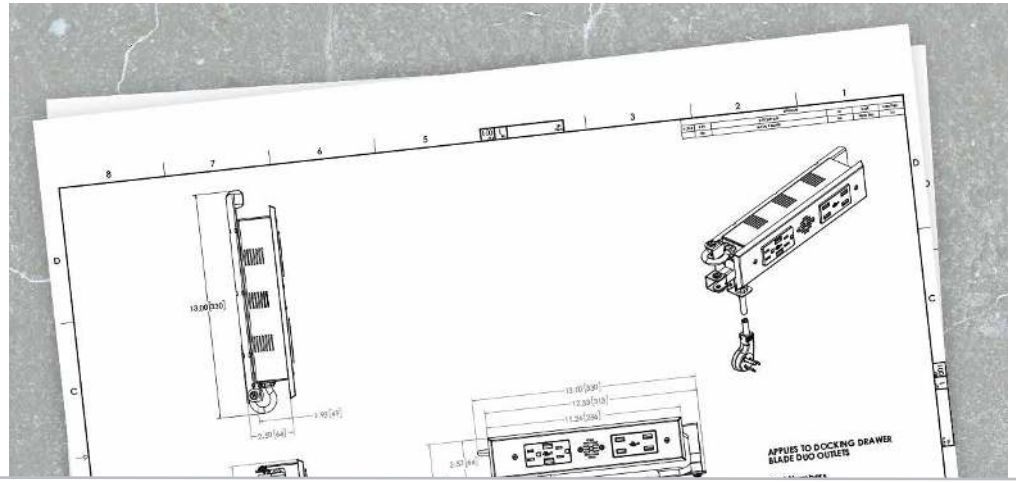
Tear Sheets are available to download for every outlet at dockingdrawer.com/downloads

Planning Resources DXF and STEP files & Mounting Diagrams

Download DXF and Step files to import into project planning software to create and share 2D and 3D renderings of our products in your projects. Simply click this link to download now.

DXF, STEP and Solidwork Files

Download DXF (2D), STEP (3D), SLDDRW and SLDPRT (Solidwork) files to import into planning programs.

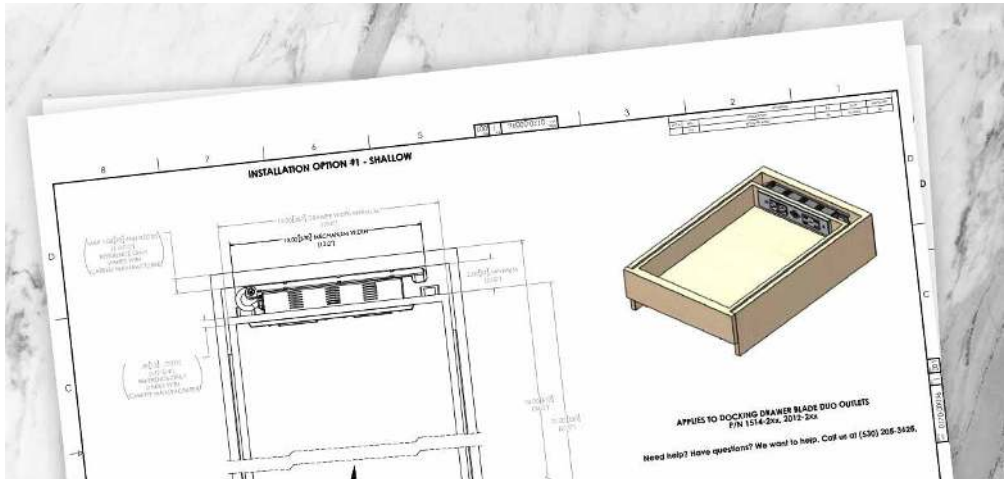


Pro Tip

DXF, STEP and Solidwork files are available to download at dockingdrawer.com/downloads

Mounting Diagrams

Detailed engineering diagrams showing cabinet specifications and how to mount the outlet into the cabinet.



Pro Tip

Mounting Diagrams are available to download at dockingdrawer.com/downloads

Planning Resources Mounting Diagrams for Blum & Grass Drawer Systems

Find detailed information on how to mount Docking Drawer outlets into popular metal drawer boxes by Blum and GRASS. Simply click this link to download now.

LEGRABOX & TANDEMBOX drawer systems



Vionaro & Nova Pro Scala drawer systems



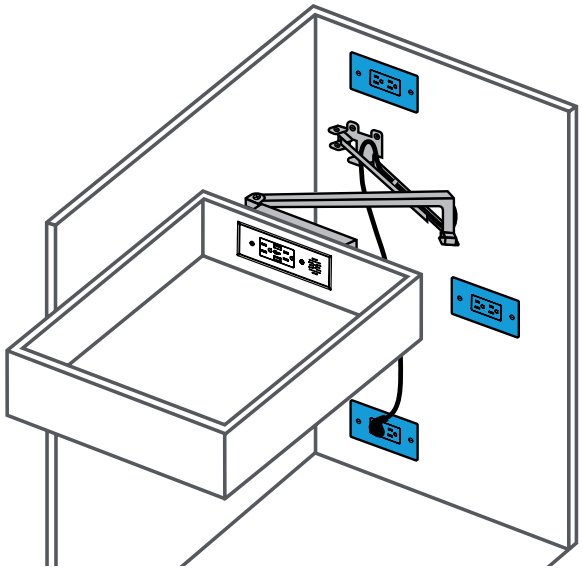
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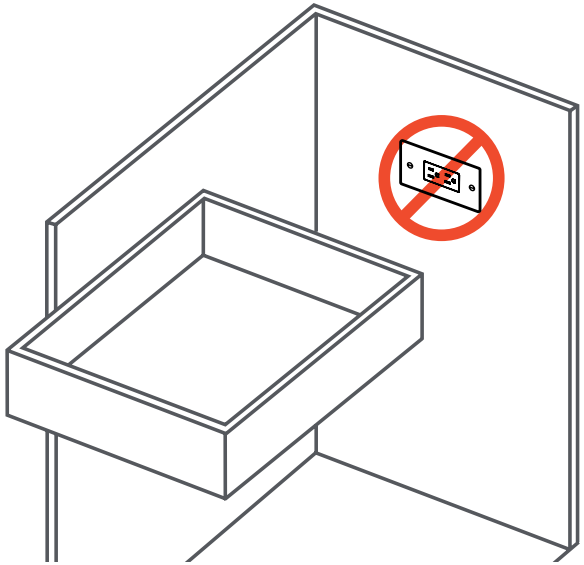
Planning Resources Locating In-Cabinet Power

Locating in-cabinet power is simple. The in-cabinet outlet needs to be within 4.5 feet of the Blade Series 1514-XXX outlet rear mounting bracket and within 3 feet of the Blade Series 2012-XXX outlet rear mounting bracket.

Recommended Locations for the In-Cabinet Electrical Supply



Where NOT to Locate the In-Cabinet Electrical Supply



*Items marked in blue are not included

Need GFCI?

Simply plug any Blade Series outlet into a GFCI outlet or circuit to give the Docking Drawer Blade Series outlet GFCI properties.

Prefer the Docking Drawer Blade series outlet to include a GFCI outlet? Specify a 1514-150 or 2012-150.

Pro Tip

In-cabinet outlets can also be installed on the side wall of cabinets, if needed.