

**GRABER** | DELIGHT IN  
EVERY DETAIL



## **Graber Tethered Motorization English/US Price Guide**

# MOTORIZED SHADES FEATURING WAND LIFT

## Product Information Guide

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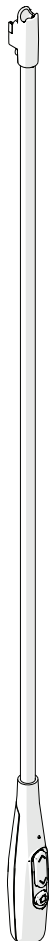
**GRABER®**

**MAY 2023**

# Features

## Motorized Wand Lift

Motorized shades controlled by the motorized wand provide reliable, effortless operation of window coverings. Shades with motorized wand lift are quiet, simple to install, and easy to operate.



Motorized Wand

**Refer to individual product pages for specific option and size information for the product being ordered.**

### Features

- Simple, intuitive control by means of the motorized wand
- Consistent motor speed regardless of size or weight
- Efficiently manages energy (heat gain or loss)
- A safer alternative to cord lift options; ideal for homes with children and pets
- Clean design with LED operation confirmation
- LED feedback on the wand to simplify operation and programming
- Quiet, smooth shade operation
- “Limit Safety Protection” feature simplifies reprogramming, should it be necessary, while protecting the shade from damage
- Convenient soft-start and soft-end add a touch of class to shade travel
- Low-voltage motorization requires no costly electrical hard-wiring

### Control Option Available

- Motorized wand—simple, convenient control at the window shade location
- Available in 24", 36", 48", and 84" lengths
- Available in White or Black

**NOTE:** Motorization components and accessories have a five-year limited warranty, excluding batteries.

Finished Shade Height (inches)	Motorized Wand Length (inches)
up to 42	24
42 $\frac{1}{16}$ to 54	36
54 $\frac{1}{16}$ to 90	48
over 90	84

Control length for motorized wand lift shades varies based on finished shade height (above). Optional wand length can be specified at the time of order.

# Size Considerations

## CrystalPleat® Cellular Shades Motorized Wand Lift

Order Entry: 12V Wand Control



Refer to individual product guide for specific option for the product being ordered.

### Features

- Wand position available on left or right side
- Not available with bottom up/top down, top down only, sun up/sun down, Perfect-Vue™, SkyTrack™, specialty shapes, or multiple shades on one headrail
- Not available with hold down brackets, side mounts, or room-darkening side channels
- Available with lightblocking strip

### Power Options

- Multiple power options available

**NOTE:** Motorization components and accessories have a five-year limited warranty, excluding batteries.

Motorized Wand Lift Size Considerations	Minimum Width (inches)	Maximum Width (inches)	Minimum Height (inches)	Maximum Height (inches)
Cellular Shades	22	144*	18	144*

\*This is the shade size maximum limit for this motor type; shade size limit may be smaller based on specific fabric type.

Cell Size	Collection Name	Maximum Shade Size (Square Inches)
1/2" Double Cell	Sanctuary	10,000
1/2" Double Cell	Splendor	12,500
3/4" Single Cell	Champagne Toast, Couture LF and BO, Enchantment BO, Infuse LF and BO, Kinsley LF and BO, Montage BO, Prestige BO, Sanctuary, Scroll FR, Valletta BO	12,500
3/4" Single Cell	Enchantment LF, Montage LF, Prestige LF, Splendor LF	17,000
3/4" Single Cell	Discovery, Endeavor, Simply Sheer, Valletta LF	20,800
9/16" Single Cell	Discovery	12,500
9/16" Single Cell	Endeavor	17,000
1 1/4" Single Cell	Splendor	14,000
1 1/4" Single Cell	Champagne Toast, Sanctuary, Valletta LF and BO	12,500

**NOTE:** For all inside mount applications, 3/8" deduction is taken by manufacturer on overall width.

Cell Size	Headrail Dimensions (inches)	Minimum Depth Mount (inches)	Flush with Casing (inches)
3/4" single cell 1/2" double cell	1 1/16" x 2 3/8"	5/8"	2 3/8"
9/16" single cell	1 1/16" x 2 1/8"	5/8"	2 3/8"
1 1/4" single cell	1 5/8" x 3 1/16"	1 3/8"	3 3/8"

## Pleated Shades Motorized Wand

Order Entry: 12V Wand Control



Refer to individual product guide for specific option for the product being ordered.

### Features

- Wand position available on left or right side
- Not available with bottom up/top down, sun up/sun down, SkyTrack™, specialty shapes, or multiple shades on one headrail
- Not available with hold down brackets, side mounts, or room-darkening side channels
- Available with lightblocking strip

### Power Options

- Multiple power options available

**NOTE:** Motorization components and accessories have a five-year limited warranty, excluding batteries.

Motorized Wand Lift Size Considerations	Minimum Width (inches)	Maximum Width (inches)	Minimum Height (inches)	Maximum Height (inches)
1" FashionPleat®	22	144*	18	96*
1" EvenPleat®	22	120*	18	96*
2" EvenPleat	22	144*	18	120*

\*This is the shade size maximum limit for this motor type; shade size limit may be smaller based on specific fabric type.

Pleat Size	Collection Name	Maximum Shade Size (Square Inches)
1" Pleated	Aberdeen, Canyon Ridge, Cloud Metal, Debonair, Desert, Grasscloth, Marina, Prescott, Sahara Ridge, Serendipity, Spring Bloom, Terrain	9,000
1" Pleated	Allure, Inkblot, Sheer Linen	11,500
1" Pleated	Blackout and Privacy Liner Only	13,000
2" Pleated	Aberdeen, Cloud Metal, Debonair, Desert, Sahara Ridge, Serendipity, Spring Bloom, Terrain	7,500
2" Pleated	Sheer Linen	11,500
2" Pleated	Blackout and Privacy Liner Only	13,000

**NOTE:** For all inside mount applications, 3/8" deduction is taken by manufacturer on overall width.

## Depth Requirements for Inside Mount: Motorized Lift

Shade Type	Headrail Dimensions (inches)	Partially recessed headrail in window casing/molding Minimum Depth Mount (inches)	Fully recessed headrail in window casing/molding Flush with Casing (inches)
1" Pleat	1 1/8 x 2 1/8	5/8	2 3/8
2" Pleat	1 1/8 x 2 3/8	5/8	2 3/8

# Size Considerations

## Lightweaves® Roller and Solar Shades Motorized Wand Lift

Order Entry: 12V Wand Control



Refer to individual product information guide for specific option for the product being ordered.

**Features**

- Available with standard or reverse roll; cassette, fascia, flat and contour valance only available with standard roll. Not available with 3" Fascia.
- Available with side channels that have sealed hem bar
- Wand position available on the left or right side; standard on the right
- Not available with hold down brackets

**Power Options**

- Multiple power options available

**NOTE:** Motorization components and accessories have a five-year limited warranty, excluding batteries.



Inside Mount Light Gap  
Refer to Light Gap Chart

Light Gap		
Valance Type	Motor End (Inside Mount)	Idle End (Inside Mount)
Contour, Fascia, Flat, No Valance	1 <sup>11</sup> / <sub>16</sub>	5 <sup>5</sup> / <sub>8</sub> "
Cassette - all sizes	1	1 <sup>11</sup> / <sub>16</sub>

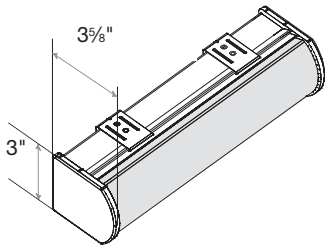
Size Considerations	
Minimum Width (inches)	Minimum Height (inches)
16	13

**NOTE:** See size charts on following pages.

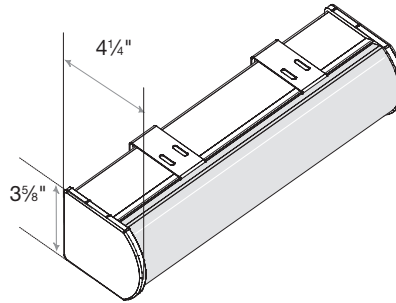
# Size Considerations

## Motorized Shade: Mounting Depth Illustrations

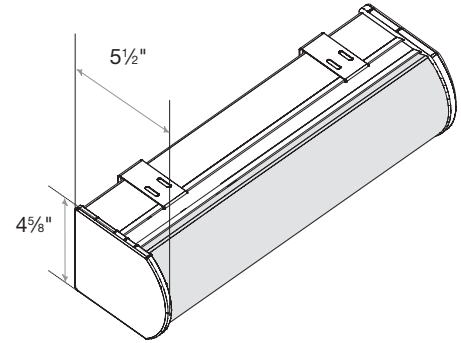
The following diagrams illustrate the mounting depth requirements for shades mounted inside window casements.



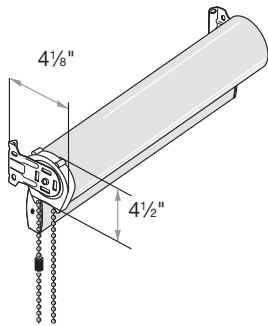
Small Cassette Valance  
1 5/8" Minimum Inside Mount



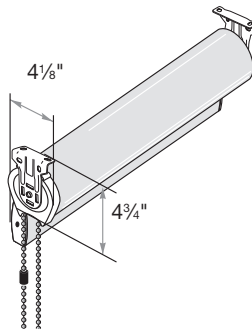
Medium Cassette Valance  
1 1/4" Minimum Inside Mount



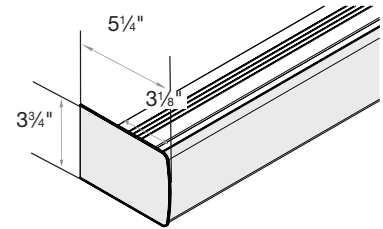
Large/Dual Cassette Valance  
1 1/4" Minimum Inside Mount



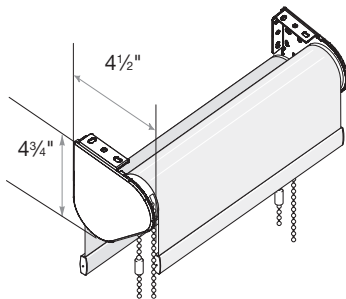
No Valance\*  
3/4" Minimum Inside/Side Mount



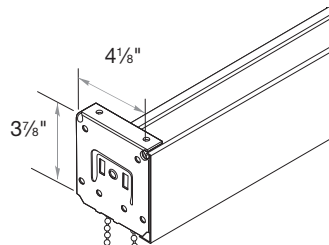
No Valance\*  
4 1/8" Minimum Inside/Top Mount



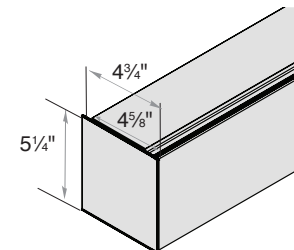
Contour Valance  
2 7/16" Minimum Inside Mount  
(return can be trimmed)



Dual Shade—No Cassette Valance  
2" Minimum Inside/Top Mount  
3/4" Minimum Inside/Side Mount



4" Fascia  
3 3/4" Minimum Inside/Top Mount  
1 1/2" Minimum Inside/Side Mount



Flat Valance  
2 15/16" Minimum Inside Mount  
(return can be trimmed)

# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation						Fabric Turned Width For Height (railroaded)									
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/No Valance		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width		4" Fascia	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Aberdeen BO(Ingenue Pearl; Efferescene; Pristine; Dulcet Graphite)	66	114	65	126	65	126	65	126	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Aberdeen LF(Ingenue Pearl; Efferescene; Pristine; Dulcet Graphite)	92	127	92	137	92	137	92	137	83	84	83	84	98	82	83	84
Arboretum BO(Serene; Monarch; Sirius; Distinguished)	85	97	78	109	78	109	78	109	75	84	75	84	89	82	75	84
Arboretum LF(Serene; Monarch; Sirius; Distinguished)	90	136	90	136	90	136	90	136	82	84	82	84	96	82	82	84
Bradley(Antique Silver; Heartstone; Midas; Azurine; Majesty; Everest)	71	85	72	87	72	87	72	87	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Bravado BO(Magnolia; Elusive Ecu; Tumbled Stone; Canterbury Night)	73	93	74	109	74	109	74	109	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Bravado LF(Magnolia; Elusive Ecu; Tumbled Stone; Canterbury Night)	79	113	91	133	91	133	91	133	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Broadcast(Constellation; Sonnet; Cashmere; Alfresco; Motif; Talisin; Austere; Continental; Simplicity; Genuine; Gourmet; Serenade)	70	79	66	100	66	100	66	100	70	79	66	100	60	95	66	100
Cambridge LF(White; Off White; Inkwell; Clay; Hawaiian Blue; Academy; Mirage; Vernal Pond; Ivory)	94	121	94	121	94	121	94	121	95	110	95	110	95	110	95	110
Cambridge RD(Hawaiian Blue; Academy; Mirage; Vernal Pond; White; Off White; Inkwell ; Clay ; Ivory; Misty)	82	110	82	110	82	110	82	110	83	108	83	108	83	108	83	108
Canyon Ridge BO(Arborio Rice; Fading Nimbus; Bona Fide Taupe; Shadow Mist; Evening Storm)	65	126	65	126	65	126	65	126	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Canyon Ridge LF(Arborio Rice; Fading Nimbus; Bona Fide Taupe; Shadow Mist; Evening Storm)	82	141	82	141	82	141	82	141	74	84	74	84	87	82	74	84
Chronicles(Feather; Skyline; Sumatra; Tuxedo)	77	93	76	96	76	96	76	96	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR

Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.



# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation						Fabric Turned Width For Height (railroaded)									
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/No Valance		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width		4" Fascia	
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Cloud Frost(Fading Nimbus; Sheli; Creamy Mocha)	80	120	80	120	80	120	80	120	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Cloud Frost(Sea Stone)	82	102	80	120	80	120	80	120	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Complex(Couture; Chance; Oceans; Visage)	71	84	72	86	72	86	72	86	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Conservancy LF(Edelweiss; Feather Grass; Golden Morel; Flowering Ash; Silver Maple; Black Peony; Sea Salt)	74	91	72	118	72	118	72	118	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Conservancy BO(Edelweiss; Feather Grass; Golden Morel; Flowering Ash; Silver Maple; Black Peony; Sea Salt)	56	87	63	114	63	114	63	114	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Consummate Silk(Opalescence; Posh Platinum ; Bright Champagne; Pale Gold; Sandstone; Seafoam)	79	96	76	109	76	109	76	109	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Debonair(Weekender Twill; Tan Gaberdine; Natural White; Harberdasher Gray)	92	106	89	132	89	132	89	132	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Delphine BO(Mythical Gray; Evocative White; Island Paradise; Dark Earth)	72	101	74	108	74	108	74	108	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Delphine LF(Mythical Gray; Evocative White; Island Paradise; Dark Earth)	94	118	94	119	94	119	94	119	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Destin BO(Natural Sherpa; Glacial Gray; Silver Lining; Deep Graphite; Morning Frost; White Whimsy)	71	99	76	96	76	96	76	96	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Earth Synergy(Soft Down; Wild Oats; Taupe Secret; Quarry Gray; Caviar)	80	106	79	108	79	108	79	108	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
EcoEncore(Mint Condition; Lunar Light; Cocoa Powder)	95	119	95	119	95	119	95	119	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Ellington 1%(Tonal Taupe; Dusky Moment; Vintage Records; Georgia Brown; Misty Slate)	76	82	73	87	73	87	73	87	76	82	73	87	73	87	73	87

Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width For Height (railroaded)										
	Small Cassette			Medium Cassette			Large Cassette/ Contour Valance/ No Cassette/No Valance			4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width		4" Fascia			
	Width (inches)	Height (inches)	Height (inches)	Width (inches)	Height (inches)	Height (inches)	Width (inches)	Height (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)
Ellington 3%(Tonal Taupe; Dusky Moment; Vintage Records; Georgia Brown; Misty Slate)	78	86	98	76	98	98	76	98	76	98	98	76	98	76	98	76	98	76	98	76	98
Ellington 5%(Tonal Taupe; Dusky Moment; Vintage Records; Georgia Brown; Misty Slate)	78	88	108	73	108	108	73	108	73	108	108	73	108	73	108	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Emerson(Freezing Point; Khaki Stripe; Poised Pewter)	74	84	100	75	100	100	75	100	75	100	100	75	100	75	100	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Empirical(White Shimmer; Complex Carbon; Modern Gray; Classic Khaki)	93	123	139	93	123	139	93	123	93	123	139	93	123	93	123	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Emporium(Bookplate White )	88	120	139	82	139	139	82	139	82	139	139	82	139	82	139	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Emporium(Silver Dollar ; Vintage Letterpress ; Sheet Music; Stepping Stone)	74	115	123	82	123	123	82	123	82	123	123	82	123	82	123	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Emporium(Sepia Snapshot)	88	98	112	82	112	112	82	112	82	112	112	82	112	82	112	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
EnviroINFUSION(Calle Lilly; Modern Silver; Gray Fedora; Shoreline Sand; Column Gray; Brownstone)	94	122	122	94	122	122	94	122	94	122	122	94	122	94	122	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Essential(Classic White; Creamy Beige; Taupe; Smokey; Black; Black on Black; Forest Green; Canyon; Beige; Stone; Black)	70	109	109	70	109	109	70	109	70	109	109	70	109	70	109	62	77	62	77	62	77
Exposition(Consummate; Genesis; Wishlist; Resonance)	75	67	89	74	89	89	74	89	74	89	89	74	89	74	89	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Flock BO(Skyscraper; Stallion; Evening Moonstone; Soft Beige; Brushwood)	78	51	89	70	89	89	70	89	70	89	89	70	89	70	89	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Flock LF(Skyscraper; Stallion; Evening Moonstone; Soft Beige; Brushwood)	86	43	76	82	76	76	82	76	82	76	76	82	76	82	76	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Gleam(Gold Rush; Ebony Glimmer; Silver Shine; Glistening Waterfall)	78	106	121	76	121	121	76	121	76	121	121	76	121	76	121	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR
Guilddhall(Tenor; Illusion; Montage; Armor; Mystery)	68	98	112	66	112	112	66	112	66	112	112	66	112	66	112	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR

Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation												Fabric Turned Width For Height (railroaded)															
	Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/No Valance				4" Fascia		Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width					
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Harmonics(Titanium; Frosty White; Fossil Gray; Grounded Greige; Mannered Gold; Deep Sapphire; Modern Moss)	89	112	82	138	82	138	82	138	82	138	82	138	82	138	82	138	82	138	82	138	82	138	82	138	82	138	82	138
Harmony(Pebble ; Tassel; Marina; Shiplap; Cityscape ; Harvest; Lavender)	91	132	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133
Inkblot(Coastal Gray; Crystal; Haven; Navy Mosaic)	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133	91	133
Jacinta(Candle Glow; Lavish Taupe; London Pewter; Greige Fusion; Charcoal)	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125	94	125
Kindred(Endless Summer; Glided Gray; Quarry; Ganache; City Skyline)	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119	95	119
LiveWell(Dew Kissed; Finely Frosted; Succulent; Sandbar; Icelandic; Seaspray)	70	89	72	86	72	86	72	86	72	86	72	86	72	86	72	86	72	86	72	86	72	86	72	86	72	86	72	86
Manifest BO(Freshwater Pearl; Flint Rock; Savvy Gray; Lifting Fog; Ciabatta; Cream Filled)	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117	82	117
Manifest LF(Freshwater Pearl; Flint Rock; Savvy Gray; Lifting Fog; Ciabatta; Cream Filled)	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144
Mayfair(Giza Cotton; Tickled Ivory; Risotto; Silversmith; Varsity Gray; Open Seas; Mystic Meadow)	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140	97	140
Merrit(Clarity; Panoramic; Emulation; Atmosphere; Exquisite; Cavalier)	76	93	75	97	75	97	75	97	75	97	75	97	75	97	75	97	75	97	75	97	75	97	75	97	75	97	75	97
Momentum(Soft Seashell; Parisian Cream; Luxe Leather; Etched Brown; Brushed Pewter; Toasted Spice)	71	94	73	96	73	96	73	96	73	96	73	96	73	96	73	96	73	96	73	96	73	96	73	96	73	96	73	96
Monticello(Mist; Burro; Dune; Tikki; Rust)	73	71	67	110	67	110	67	110	67	110	67	110	67	110	67	110	67	110	67	110	67	110	67	110	67	110	67	110
Nantucket(Vintage Veli; Taupe Utopia; Rich Sabie; Spice)	77	64	72	97	72	97	72	97	72	97	72	97	72	97	72	97	72	97	72	97	72	97	72	97	72	97	72	97

Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation												Fabric Turned Width For Height (railroaded)																			
	Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/No Valance				4" Fascia				Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width			
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Northshore(Chai; Cream Coverlet; Safari; Fine Flint; Icy Waterfall; Lakeside)	76	111	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141	82	141
Pannier(Black Dahlia; Creamy Mocha; Feather White; Rivarbed Brown)	75	67	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87	73	87
Paving Stone BO(Bechamel; Pale Adobe; Eventide; Almond Butter)	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97
PlanetSafe(French Pastry; Gray Perfection; Cool Cave)	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122	94	122
Plexus 1%(Renewal; Provisions; Chalcedony; Stately; Landmark; Travertine; Penumbra; Nutley Pier; Black Granite; Niche)	68	74	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89	62	89
Plexus 3%(Renewal; Provisions; Chalcedony; Stately; Landmark; Travertine; Penumbra; Nutley Pier; Black Granite; Niche)	68	75	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96	60	96
Plexus 5%(Renewal; Provisions; Chalcedony; Stately; Landmark; Travertine; Penumbra; Nutley Pier; Black Granite; Niche)	68	82	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96	63	96
Porter(Fuji Fog; Misty Marsh; Executive Gray; Rain; Classy Carbon)	68	65	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96	71	96
Providence-BO(Vanilla Bean ; Woolen Mittens; Varsity Blue; Stacked Stone ; Golden Leaf; Dewdrop)	56	84	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109	63	109
Providence-LF(Vanilla Bean ; Woolen Mittens; Varsity Blue; Stacked Stone ; Golden Leaf; Dewdrop)	73	93	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110	72	110
Quintessence(White Enchantment; Flecked Gray; Gilded Linen; Gray Alloy; Black Facet)	65	96	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107	76	107
Regent(First Frost; Smoky Taupe; Fossil; Lulling Storm; Magnetic)	95	118	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125	95	125

Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation												Fabric Turned Width For Height (railroaded)																			
	Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/No Valance				4" Fascia				Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Length				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width			
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Renaissance(Blushed Paradise; Subdued Botanical)	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140		
Riverbend(Rust; Steel; Natural; Khaki; Maduro)	72	78	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114	72	114		
Sabine(Smooth Java; Lush Garden; Midnight Blue; Summer Gray; Powdery Sand)	74	92	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96	72	96		
SafeSync(Wheat Harvest; Woodland Taupe; Bronze Haze; Black Sands; Elusive Ebony)	62	81	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106	59	106		
Sahara Ridge(Vapor ; Alabaster; Birch Grove)	81	84	89	129	89	130	89	130	89	130	89	130	89	130	89	130	89	130	89	130	89	130	89	130	89	130	89	130	89	130		
Sakura(White Lattice; Zen Gray; Craftsman)	67	58	60	101	59	109	59	109	59	109	59	109	59	109	59	109	59	109	59	109	59	109	59	109	59	109	59	109	59	109		
Sanguine(Blue Pueblo; White Serenity; Misty Morning; Gray Estate; Montauk Slate)	73	63	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98	66	98		
Santorini(Desert Sands; Unexpected Umber; Evocative Ivory)	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144	76	144		
Shadow(White; Beige; Tan; Light Gray; Dark Gray)	75	96	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98	74	98		
Sheffield(Chelsea; Henley; Windsor; Tuscon; Eclipse; Weathered; Meadow; Manor)	78	126	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136	91	136		
Shiloh(Water Lily; Sunlit Stone; Almond; Distant Thunder; Gentle Gray)	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124	93	124		
Solana BO(Drift; Blue Breeze; Dandelion; Wish; Brown Tint; Black Whirlwind; Sweet Dreams)	64	87	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Spring Bloom(Kissed Olive; Cultivated Kalamata; Tropical Garden; Sunmeadow; Botanical Garden; Cherry Blossom)	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140	92	140		
Standard Weave 1%(Calcite; Polished)	74	88	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Standard Weave 1%(Veranda; Café Doppio; Chiseled)	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88		

Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Size Considerations

Minimum width: 13"  
Minimum height: 13"

## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type	Normal Fabric Orientation										Fabric Turned Width For Height (railroaded)									
	Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/No Valance		4" Fascia		Small Cassette		Medium Cassette		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Length		Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width		4" Fascia			
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Standard Weave 10%(Calcite; Polished)	77	106	76	108	76	108	76	108	77	106	77	106	77	106	77	106	77	106		
Standard Weave 10%(Veranda; Café Doppio; Chiseled)	76	99	76	99	76	99	76	99	76	99	76	99	76	99	76	99	76	99		
Standard Weave 3%(Calcite; Polished)	73	96	73	97	73	97	73	97	73	96	73	97	73	97	73	97	73	97		
Standard Weave 3%(Veranda; Café Doppio; Chiseled)	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Standard Weave 5%(Calcite; Polished)	77	96	75	100	75	100	75	100	77	96	75	100	75	100	75	100	75	100		
Standard Weave 5%(Veranda; Café Doppio; Chiseled)	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96		
Steel House(Cavern Floor; Cloud ; Burf; Chocolate Souffle)	72	99	74	107	74	107	74	107	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Suburban II(White ; Mystic ; Highland )	72	144	72	144	72	144	72	144	100	62	100	62	100	62	100	62	100	62		
Tableaux(White Tranquility; Stately Gray ; Gray Opulence; Craftsman Brown; Provincial Plum; Ivory Cameo)	74	55	63	94	63	94	63	94	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Tattered Husk BO(Pale Adobe; Feather White; Crystal; Polished Ore; Woven Canvas)	74	84	76	100	76	100	76	100	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Tattered Husk LF(Pale Adobe; Feather White; Crystal; Polished Ore; Woven Canvas)	81	94	91	136	91	136	91	136	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Terrain(Gray Frost; Pale Adobe ; Pale Rhino)	78	112	89	135	89	135	89	135	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Thesis(Weathered Stone; Bluebook White; Summer Khaki; Oxford Blue; Macho Macchiato; Dusky Titanium)	70	93	70	126	70	126	70	126	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Tuvalu(Wisteria White; Silver Tree; Dusky Botanical)	94	121	94	121	94	121	94	121	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Unison(glo; Malted Milk; Mascarpone; Platinum; Khaki Sand; Rivermist)	88	128	82	144	82	144	82	144	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		
Vancouver(Meringue; Heavently; Light Fog; Good Grayicious; Capri; Master Mariner)	91	121	90	130	90	130	90	130	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR	NO RR		

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# Size Considerations

Minimum width: 13"  
Minimum height: 13"

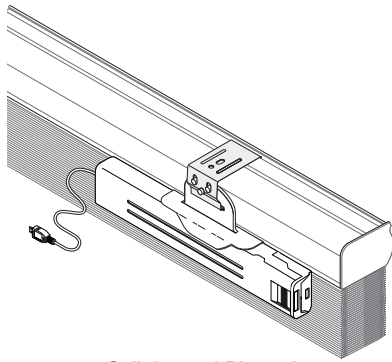
## Lightweaves® Roller and Solar Shades: Motorized Wand Lift Maximum Shade Size

Valance Type  Fabric	Normal Fabric Orientation												Fabric Turned Width For Height (railroaded)																			
	Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/No Valance				4" Fascia				Small Cassette				Medium Cassette				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Length				Large Cassette/ Contour Valance/ No Cassette/ No Valance at Max Width			
	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)	Width (inches)	Height (inches)		
Vanguard 1%(Authentic; Gentle Beige; Chrome; Pendulum)	74	88	73	90	73	90	73	90	74	88	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Vanguard 1%(Elusive; Macedonia; Dew; Homage; Peloton)	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88		
Vanguard 3%(Authentic; Gentle Beige; Chrome; Pendulum)	73	96	73	97	73	97	73	97	73	96	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97	73	97		
Vanguard 3%(Elusive; Macedonia; Dew; Homage; Peloton)	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Vanguard 5%(Authentic; Gentle Beige; Chrome; Pendulum)	77	96	75	100	75	100	75	100	77	96	75	100	75	100	77	96	75	100	75	100	75	100	75	100	75	100	75	100	75	100		
Vanguard 5%(Elusive; Macedonia; Dew; Homage; Peloton)	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96		
Wayfarer(Suitry White; Maldives Gray)	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144		
Whitcomb(Paloverde; Invitation; Juniper)	90	118	89	132	89	132	89	132	90	118	89	132	89	132	90	118	89	132	89	132	89	132	89	132	89	132	89	132	89	132		
Whitehall(Veranda; Wolverine; Nectar; Westminster; Seattle Mist)	87	106	82	115	82	115	82	115	87	106	82	115	82	115	87	106	82	115	82	115	82	115	82	115	82	115	82	115	82	115		
Whittaker BO(Sugar Quartz; Inspired Ivory; Orion; Gray Frost; Stone, Night Life)	73	87	75	99	75	99	75	99	73	87	75	99	75	99	73	87	75	99	75	99	75	99	75	99	75	99	75	99	75	99		
Vanguard 1%	74	88	73	90	73	90	73	90	74	88	73	90	73	90	74	88	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Vanguard 1%	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88	72	88		
Vanguard 3%	73	96	73	97	73	97	73	97	73	96	73	97	73	97	73	96	73	97	73	97	73	97	73	97	73	97	73	97	73	97		
Vanguard 3%	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90	73	90		
Vanguard 5%	77	96	75	100	75	100	75	100	77	96	75	100	75	100	77	96	75	100	75	100	75	100	75	100	75	100	75	100	75	100		
Vanguard 5%	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96	74	96		
Wayfarer	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144	92	144		
Whitcomb	90	118	89	132	89	132	89	132	90	118	89	132	89	132	90	118	89	132	89	132	89	132	89	132	89	132	89	132	89	132		
Whitehall	87	106	82	115	82	115	82	115	87	106	82	115	82	115	87	106	82	115	82	115	82	115	82	115	82	115	82	115	82	115		
Whittaker BO	73	87	75	99	75	99	75	99	73	87	75	99	75	99	73	87	75	99	75	99	75	99	75	99	75	99	75	99	75	99		

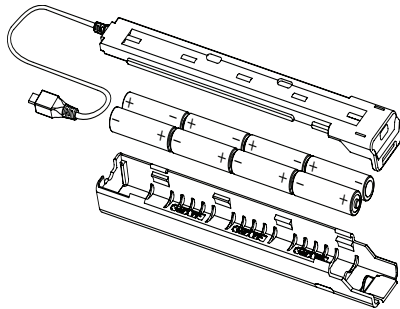
Seams may be added to fabrics to accommodate long shade requirements. Seams will be placed as close to the tube as possible; seam location is not selectable. Seams are visible when the shade is fully extended.

# Options

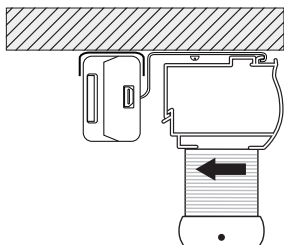
## Power Considerations



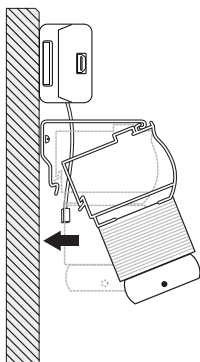
Cellular and Pleated  
Battery Consideration  
(back view)



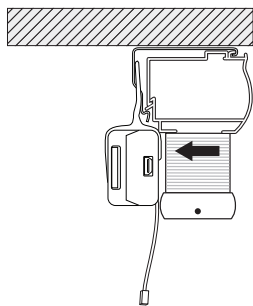
Battery Case (non-rechargeable solution)



Ceiling/Inside Mount



Outside Mount



Inside Mount

Motors can be powered by non-rechargeable AA batteries, rechargeable battery pack, or plug-in transformer. Each shade requires a motor and appropriate power source.

### Power Considerations

Rechargeable battery packs must be charged before use. Charge times could vary.

Larger shades consume more power while operating. When choosing the appropriate power source based upon the shade size, we recommend the following power sources for the best performance.

Power Source	Estimated Life (Average Size Shade: 48" x 60")
Rechargeable Li-Ion Battery Pack	3+ Years (before recharge)
Reloadable Battery Case (AA Lithium)	2+ Years
Reloadable Battery Case (AA Alkaline)	1+ Years

Based on average size shade, opening and closing once per day.

Size	Power Options
Up to 3,600 square inches	All Power Sources
Over 3,600 square inches	Reloadable Dual Battery Cases
	Rechargeable Battery Pack
Over 7,200 square inches	Plug in Transformer
	Rechargeable Battery Pack
	Plug in Transformer

### Battery Case Considerations

**Battery power recommended for maximum of 10 shades for best battery performance.**

Battery cases are installed in space outside of the product and can be a challenge to hide in some windows.

#### For Inside Mounts

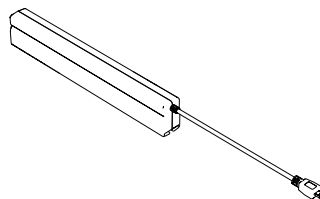
- The cleanest and simplest method available for cellular and pleated shades is the integrated battery case hanger; this hanger attaches directly to a shade bracket to support the battery case while allowing the case to be removed for battery changes; additional recessed space will be needed

#### For Outside Mounts

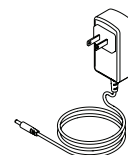
- For outside mounts, battery cases can be installed above or to the side of the shade

**NOTE:** For best performance with non-rechargeable solutions, use AA lithium batteries.

Power Source	Dimensions
Battery case	9 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>4</sub> " x 7 <sup>1</sup> / <sub>8</sub> "
Battery case minimum recessed space (installed with bracket)	product minimum recessed space + 3 <sup>1</sup> / <sub>4</sub> "
Rechargeable battery pack	8 <sup>3</sup> / <sub>16</sub> " x 1 <sup>7</sup> / <sub>16</sub> " x 1 <sup>5</sup> / <sub>16</sub> "



Rechargeable Battery Pack



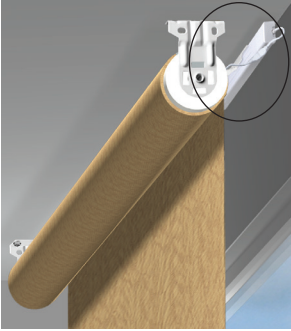
Li-Ion Charger



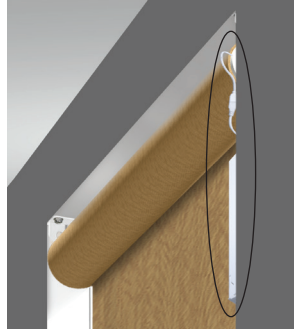
# Options

## Power Considerations

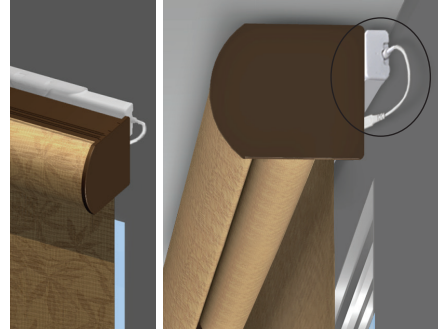
### Solar/Roller Shade Battery Considerations



Solar/Roller Shades  
Outside Mount Battery Pack



Solar/Roller Shades  
Inside Mount Battery Pack



Solar/Roller Shades with Cassette  
Battery Pack

**Transformer power recommended for shade systems of any quantity.**

### DC Plug-in Transformer Considerations

**A power outlet must be within cord length to power motor.**

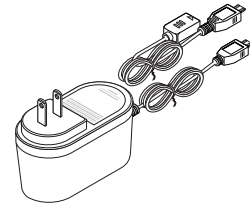
Transformer includes 72" power cord and a 96" extension cable (power cord and extension cord cannot be cut to length or trimmed).

**A transformer is recommended on all shades over 7,200 square inches.**

Transformer dimensions

3 ¼" wide x 2" deep (not including plug) x 1½" tall (as you look at the plug in the outlet).

**NOTE:** Due to the many variations of installations, wire management components are not included with your motorized shade system. There are numerous wire management products available at your local hardware store or home improvement center to help disguise the power cord when using a plug-in transformer. An example of a popular wire management accessory is wire channel. Wire channel is a vinyl sheathing that can be placed along the window casing or wall that houses and conceals exposed wiring for a clean and professional appearance.

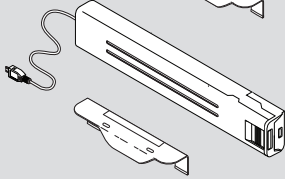
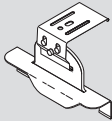


DC Plug-In Transformer

# Options

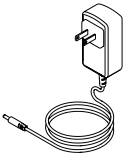
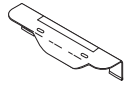
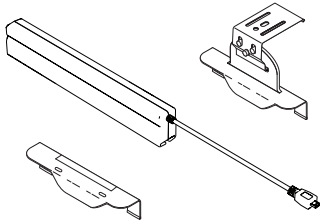
## Power Components

NOTE: These power supplies are not compatible with Somfy® RTS motors.



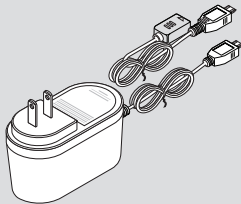
### Battery Case

- Reloadable: available with or without batteries
- Multiple mounting options provided
- Simple case design allows for easy battery replacement
- For best performance, use AA lithium batteries (each case requires 8 AA lithium batteries)
  - AA Alkaline Batteries are acceptable to use with this product
- 48" and 96" extensions available; maximum of two per motor
- Battery power recommended for maximum of 10 shades for best battery performance



### Rechargeable Battery Pack

- The rechargeable battery pack comes as a sealed pack with the batteries already included; batteries are charged by plugging the charger into the pack
- Multiple mounting options provided
- 48" and 96" motor-to-battery extensions available; maximum of two per motor
- Rechargeable battery packs ship at 30% charge and must be fully charged prior to installation
- Dual pack configuration is not available or necessary for the rechargeable battery packs
- One Lithium-ion charger is required per order; sold separately
- Lithium-ion charger cable is 6 feet
- Lithium-ion charger has an LED that turns red to indicate charging and green to indicate fully charged
- Fully charging the rechargeable battery pack takes an average of five hours



### Plug-In Transformer

- Eliminates the need for batteries
- Small plug profile
- Cord can be concealed behind curtains or along trim
- 72" power cord and 96" extension cable (power cord and extension cable cannot be cut to length)
- 48" and 96" extensions available; maximum of two per motor
- Available in White only

### Transformer Dimensions

- 3 1/4" wide x 2" deep (not including plug) x 1 1/2" tall (as you look at the plug in the outlet)
- Wire management components are not included with your motorized shade system
  - Refer to 12-volt power considerations for further details

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# GRABER.

## Grabber Motorization Designer US Price List — Effective January 2024

See product information guide for illustrations of power and control items listed below. Select motor package and add to price of shade.

### Motor Pricing

See product information guide for descriptions and illustrations of items listed below.

For motorized lift dual shades, one (1) motor, and one (1) power source are required for each motorized shade (total of two motors and two power sources if both shades of the dual shade are motorized lift).

### A. Motor Pricing - Wand

Add price of motor to shade price.

#### Motor Options

##### Motorized Wand Controlled Motors

<b>Cellular, Pleated</b> (includes wand - Options: black or white   24", 36", 48 and 84" wands available)	195
<b>Roller, Solar</b> (includes wand - Options: black or white   24", 36", 48 and 84" wands available)	195

### C. Motorization Power Sources

Choose one (1) battery option or one (1) transformer per motor.

#### 12-Volt Power Options

<b>Battery Cases</b>	
<b>Single Non-Rechargeable, Reloadable Battery Case (empty)</b>	48
<b>Single Non-Rechargeable, Reloadable Battery Case (filled)</b> (Includes 8 AA lithium batteries)	115
Dual cases recommended for shades over 3,600 square inches to extend battery life.	
<b>Dual Non-Rechargeable, Reloadable Battery Case (empty)</b>	95
<b>Dual Non-Rechargeable, Reloadable Battery Case (filled)</b> (Includes 16 AA lithium batteries)	230
<b>Rechargeable Battery Pack</b>	
<b>Rechargeable Battery Pack (charger sold seperately)</b>	178
<b>Li-ion Charger</b>	21
<b>Other Power Options</b>	
<b>48" Extension Cable</b>	21
<b>96" Extension Cable</b>	26
<b>Plug-In Transformer*</b>	115

\*Includes 96" extension cable