BOLLARD
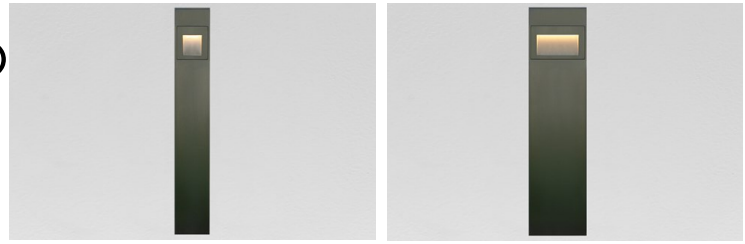# STEALTH AND IMPACT®

Low glare path lights lead the way through the out of doors, as built-ins or from freestanding bollards.

ORDERING INFORMATION AND DRAWINGS / DIMENSIONS - FIXTURE / BOLLARD

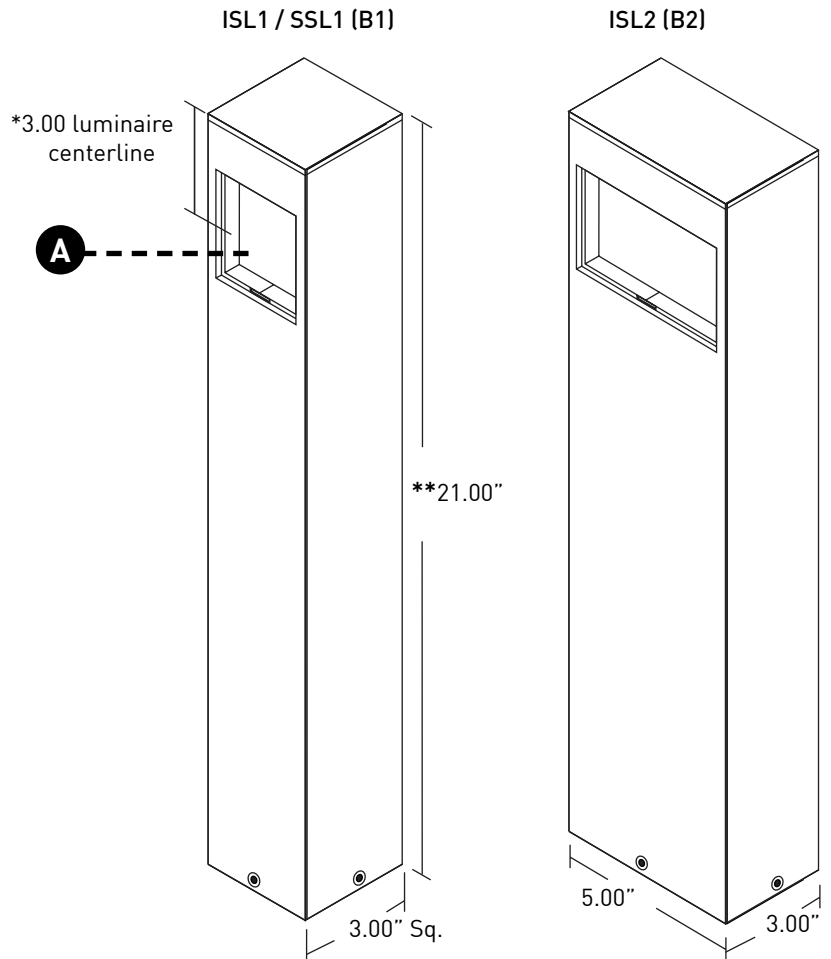| FIXTURE	RATING	FLANGE FINISH	CRI / WATTAGE PACKAGE	CCT	POWER SUPPLY	MOUNTING OPTION	CUSTOM HEIGHT
SSL1B Stealth Steplight **ISL1B** Impact Steplight **ISL2B** Double Impact Steplight	**2** Wet (Locking)	**POWDER COAT FINISH** **WH** White **BK** Black **AG** Satin Silver **AB** Architectural Bronze **CF** Custom Finish* *(Consult Factory)	**STEALTH & IMPACT** **90L04B** 90+ CRI, 4.2 Watts SSL1 Delivered Lumens - 89 ISL1 Delivered Lumens - 134 **DOUBLE IMPACT** **90L07B** 90+ CRI, 6.9 Watts ISL2 Delivered Lumens - 242	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **CC** Custom Color (gel) * Color Temp: _____K *(Custom gels assigned unique suffix upon receipt of order. Contact Product Support for guidance.)	**INTEGRAL** **120-PH1** Leading edge / Trailing Edge (supports 1 fixture) **120-AT2** 0-10V Analog (supports 1 fixture) **277-AT2** 0-10V Analog (supports 1 fixture) **REMOTE** **REM** Specified separately in remote power supply section	**BD** Bolt-Down* *(fasteners not included) **CP** Concrete Pour* *(Includes J-Bolts) **SD** Stake-Down* *(Not recommended for integral power supply configurations)	Leave blank unless specifying custom height Standard bollard height is 21". When specifying custom height, include dimension at end of model number in inches (max 48"; minimum 09" with remote power supply; minimum 14" with integral power supply)

Ⓐ BOLLARD

Freestanding mount for use with Stealth, Impact or Double Impact fixtures. Receives luminaire for flush installation.

*Standard luminaire centerline is 3.00" (76mm) from the top of the bollard. Consult factory for custom luminaire heights.

**Standard Bollard height is 21.00" (533mm); minimum height for remote powered Bollard is 9" (229mm); minimum height for integral powered Bollard is 14" (356mm); maximum height 48" (1.2m).

PART NUMBER NOTES
- Fixture ships as e.g., ISL1-2-AB-90L04B2
- Bollard ships as e.g., B1-AB-INT-1AT2-BD-30

ISL1 / SSL1 (B1)

ISL2 (B2)
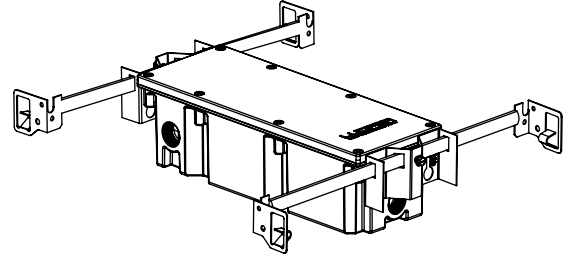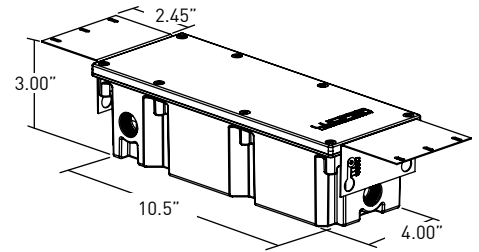
*3.00 luminaire centerline

Ⓐ

**21.00"

3.00" Sq.

5.00"

3.00"

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[DATE OF REV: 06122023]

BOLLARD

REMOTE POWER SUPPLY OPTIONS

WET, DRY / DAMP LOCATION, OR CONCRETE POUR LOCATION

UBB-JCT-24V-60	-	VOLTAGE		-	POWER SUPPLY		-	ATTACHMENT	
JUNCTION BOX 24 VOLT OUTPUT 60 WATT		1	120 VAC		PH1	LTF Leading / Trailing edge (SSL1 / ISL1 Supports 1 - 12 fixtures) (ISL2 Supports 1 - 6 fixtures)**120 VAC ONLY**		HGR	Hangar Bars
		3	277 VAC					BKT	Brackets
					AT2	LTF 0-10V Analog (SSL1 / ISL1 Supports 1 - 12 fixtures) (ISL2 Supports 1 - 6 fixtures)			

2.45"
3.00"
10.5"
4.00"

UBB-JCT-24V-60-XXXX-(BKT / HGR)
Universal Junction Box, wet location and concrete pour rated. Specified as a remote power supply and features secondary output capacity, simplifying wiring practices and reducing budgets. Supplied with "-HGR" or "-BKT" mounting hardware, shown with Bracket (-BKT). Hanger bars adjust from 14" to 24" for standard joist spacing. Brackets, universal stainless steel mounting flange.

DRY / DAMP LOCATION

PSA-24V	-	POWER SUPPLY
POWER SUPPLY ASSEMBLY 24 VOLT OUTPUT		**40-1L22** 40 Watt, 120VAC, Lutron 2-Wire, Forward Phase (SSL1 / ISL1 Supports 1 - 10 fixtures, ISL2 Supports 1 - 5 fixtures)
		60-1PH1 60 Watt, 120VAC, LTF Leading / Trailing edge (SSL1 / ISL1 Supports 1 - 12 fixtures, ISL2 Supports 1 - 6 fixtures)
		60-1AT2 60 Watt, 120VAC, LTF 0-10V Analog (SSL1 / ISL1 Supports 1 - 12 fixtures, ISL2 Supports 1 - 6 fixtures)
		60-3AT2 60 Watt, 277VAC, LTF 0-10V Analog (SSL1 / ISL1 Supports 1 - 12 fixtures, ISL2 Supports 1 - 6 fixtures)
		66-UEX2 66 Watt, 120 - 277VAC, eldoLED LINEARdrive, DMX (SSL1 / ISL1 Supports 1 - 18 fixtures, ISL2 Supports 1 - 9 fixtures)
		66-UED3 66 Watt, 120 - 277VAC, eldoLED LINEARdrive, DALI (SSL1 / ISL1 Supports 1 - 18 fixtures, ISL2 Supports 1 - 9 fixtures)
		96-ULP1 96 Watt, 120 - 277VAC, Hi-lume Premier, EcoSystem / 3-wire (SSL1 / ISL1 Supports 1 - 26 fixtures, ISL2 Supports 1 - 13 fixtures)

PSA USED FOR PH1 & AT2
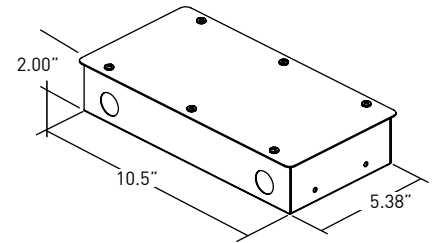

2.30"
4.70"
4.70"

PSA-24V-XX-XXXX
Hardwire Class 2 power supply, consists of a steel compartment and lid painted black with integral conventional electronic power supply. Wired in either a homerun or parallel method. Power Supply must be installed in a Dry/Damp location.
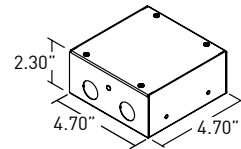
PSA USED FOR L22, EX2, ED3 &LP1

2.00"
10.5"
5.38"

FOLLOWING POWER SUPPLY FOR DEMONSTRATION AND SAMPLING PURPOSES ONLY. NOT FOR PERMANENT INSTALLATIONS.

☐ **PSA-24V-25-1EL2**   Plug-in 120V Class 2 power supply (Supports 1 fixture)

PSA-24V-25-1EL2

1.20"
1.90"
3.50"
1.10"

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[DATE OF REV: 06122023]
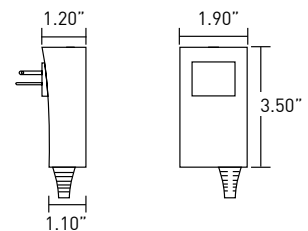
BOLLARD

DRAWINGS / DIMENSIONS - MOUNTING OPTIONS

B **BOLT-DOWN (BD)**
Base is bolted directly onto mounting surface with customer-furnished hardware. Bollard then attaches to base with supplied screws.
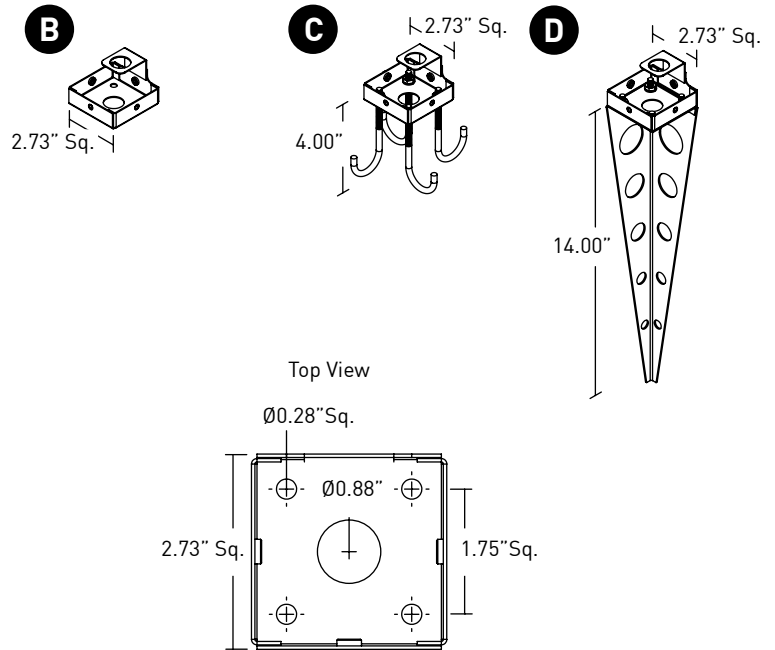
C **CONCRETE POUR (CP)**
Base features integral zinc-plated J-bolts for secure concrete pour mounting. Bollard then attaches to base with supplied screws.

D **STAKE-DOWN (SD)**
Base is outfitted with stake and comes attached to Bollard for inserting into ground. Not recommended for integral power supply configurations.

ISL1 / SSL1 (B1)

B
2.73" Sq.

C
2.73" Sq.
4.00"

D
2.73" Sq.
14.00"

Top View

Ø0.28"Sq.
Ø0.88"
2.73" Sq.
1.75"Sq.

ISL2 (B2)

B
4.72"
2.72"

C
2.72"
4.72"
4.00"

D
2.72"
4.72"
14.00"

Top View

4.72"
2.72"
Ø0.28"
1.48"
Ø0.88"
0.80"

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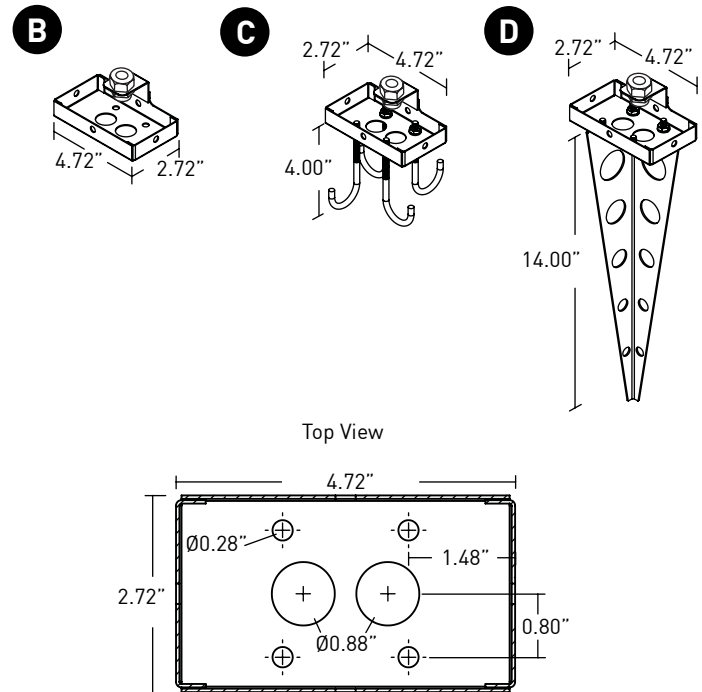
BOLLARD

DRAWINGS / DIMENSIONS - FIXTURE

E LED
Regressed DC LED with slot aperture for glare-free, energy-efficient path and step lighting; suitable for dry / damp or wet applications. Dimming by power supply.
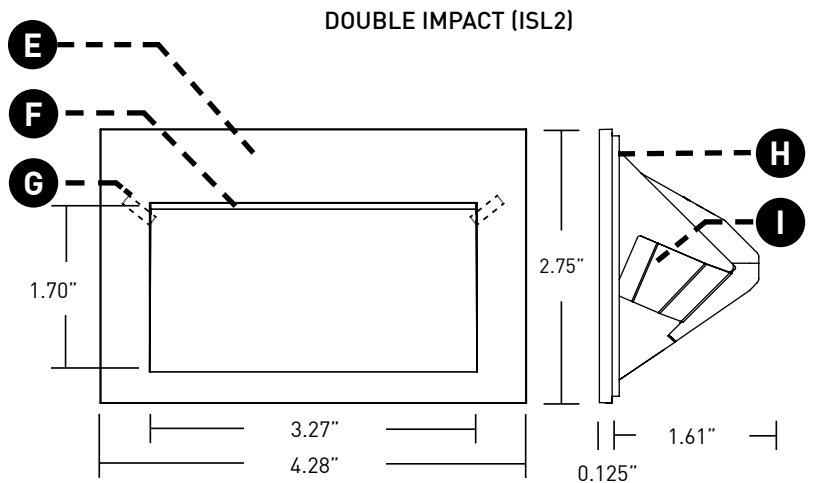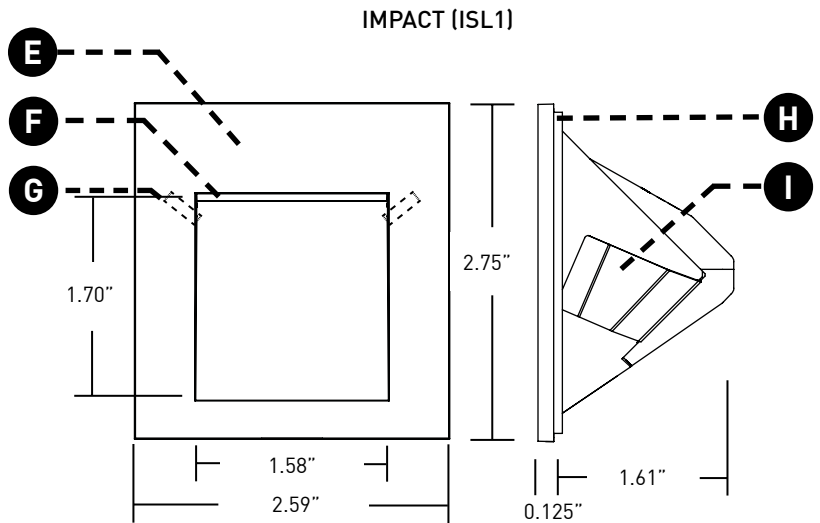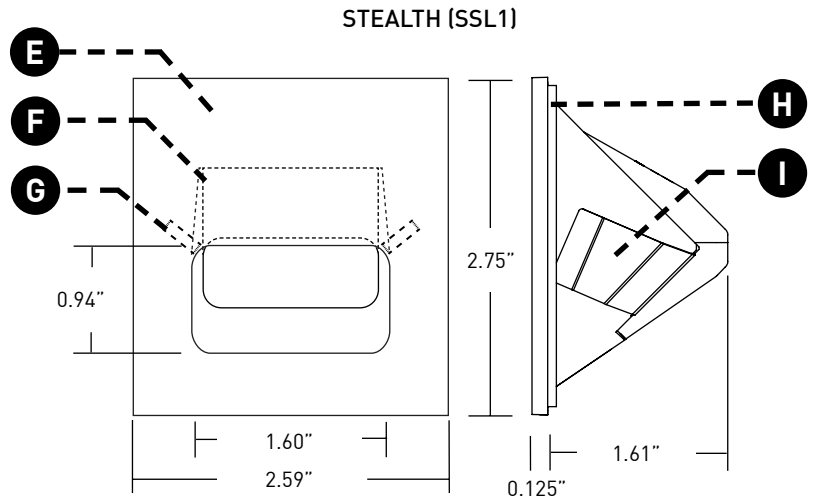
F MEDIA
Provided with sealed polycarbonate linear diffusion lens; consult factory for availability of color gels, which may achieve custom color temperatures.

G LOCKING
Discreetly hidden tamper-resistant set screws. Included with IP65 Wet location luminaire.

H GASKET
Foam gasket provided. Required for IP65 wet location applications only.

I RETENTION
Torsion spring clips secure fixture into back box, mounting plate, or appropriately sized cut-out.

STEALTH (SSL1)

E
F
G
H
I

0.94"
2.75"
1.60"
2.59"
1.61"
0.125"

IMPACT (ISL1)

E
F
G
H
I

1.70"
2.75"
1.58"
2.59"
1.61"
0.125"

DOUBLE IMPACT (ISL2)

E
F
G
H
I

1.70"
2.75"
3.27"
4.28"
1.61"
0.125"

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BOLLARD

TECHNICAL

CONSTRUCTION

<u>Bollard Body</u>: Extruded aluminum with stainless steel internals; consult factory for availability of custom Bollard body extrusion dimensions. Available in granulated powder coat finishes only.
<u>Stealth / Impact</u>: Cast 316 stainless steel or brass, depending on finish. Painted finishes are granulated powder coat.
<u>Universal Junction Box</u>: Polycarbonate.

LED

Proprietary 2 step MacAdam ellipse LED module available with 90+ CRI in color temperatures of 2700K, 3000K, 3500K and 4000K. Average rated lamp life: 50,000 hours. LED and driver assemblies are field-replaceable.

POWER SUPPLY PERFORMANCE AND DIMMING INFORMATION

Power Supply	PH1	AT2	L22	LP1	EX2	ED3
Minimum °C	-20 °C	-20 °C	0 °C	0 °C	-20 °C	-20 °C
Maximum °C	50 °C	50 °C	40 °C	40 °C	50 °C	50 °C
Dimming %	10.0%	5.0%	1.0%	0.1%	0%	0%

Note: For L22 and LP1 drivers consult chart on page 6 to confirm appropriate dimming curve for compatibility with selected control.

RECOMMENDED SPACING

SSL1B / ISL1B: Recommended 36" (914mm) on-center spacing with multiple Bollards, when 21" height is observed.

ISL2B: Recommended 60" (1524mm) on-center spacing with multiple Bollards, when 21" height is observed.

ELECTRICAL

Luminaire requires factory-supplied 24-Volt DC power supply. May be integral to bollard or remote. Secondary run lengths vary depending on power supply specified.

DRIVER	WIRE AWG				
	12	14	16	18	20
PH1, AT2	75'	60'	50'	40'	-
L22, LP1	60'	40'	25'	15'	-
EX2, ED3	-	-	118'	72'	45'

LISTING

cTUVus Listed; Dark-Sky Compliant; Patent No. US D606,228 S; Dry / Damp (IP54 rated) and Wet (IP65 rated) location. NEMA 410 compliant.

WARRANTY

Manufacturer's 1-year warranty guarantees product(s) listed to be free from defects in material and workmanship under normal use and service. 5-year warranty on LED and power supply to operate with 70% of the original flux and remain within a range of 3 duv. Warranty period begins from the date of shipment by Seller. Consult website for full warranty terms and conditions.

CHANGE LOG

1. 10/08/2019: NEW CONSOLIDATED SPEC SHEET WITH SINGLE NOMENCLATURE FOR SPECIFICATION
2. 10/08/2019: NOW OFFERED WITH SATIN SILVER FINISH
3. 07/05/2022: ADDED PH1 LEADING / TRAILING EDGE DRIVER, AND UPDATED AT2 TO 0-10V ONLY.
4. 6/12/2023: ADDED 90 CRI WATTAGE PACKAGE

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As part of its policy of continuous research and product development, the company reserves the right to change or withdraw specifications without prior notice.

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BOLLARD

LUTRON DIMMING COMPATIBILITY

Power supply **L22 Product Family**	Part No.	Drivers Per Control (120V only)
Maestro WirelessR 600 W dimmer	MRF2-6ND-120-	1-8
Maestro WirelessR 1000 W dimmer	MRF2-10ND-120-	1-13
Caséta® Wireless Pro 1000 W dimmer	PD-10NXD-	1-13
GRAFIK T™ CL® dimmer	GT-250M-, GTJ-250M-	1-10
HomeWorks® QS adaptive dimmer	HQRD-6NA-	1-8
HomeWorks® QS 600 W dimmer	HQRD-6ND-	1-8
HomeWorks® QS 1000 W dimmer	HQRD-10ND-	1-13
RadioRA® 2 adaptive dimmer	RRD-6NA-	1-8
RadioRA® 2 1000 W dimmer	RRD-10ND	1-13
myRoom™ DIN power module	MQSE-4A1-D	1-6 (per output), 1A max driver input current
HomeWorks® QS DIN power module	LQSE-4A1-D	1-6 (per output), 1A max driver input current
HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120	2-10 (per output), 26 total per module
HomeWorks® wallbox power module	HWI-WPM-6D-120	2-10 (per output), 26 total per module
GRAFIK Eye® QS control unit	QSGR-, QSGRJ-	2-10 (per output), 26 total per module
GRAFIK Eye® 3000 control unit	GRX-3100-, GRX-3500-	2-10 (per output), 26 total per module
RPM-4U module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4U-120, LP-RPM-4U-120	2-26 (per output), 26 total per module
RPM-4A module (LCP, HomeWorks® QS, GRAFIK Systems™, Quantum®)	HW-RPM-4A-120, LP-RPM-4A-120	1-13 (per output), 26 total per module
GP dimming panels	Various	1-26
Ariadni CL 250W dimmer	AYCL-253P-	1-8
Diva CL 250W dimmer	DVCL-253P-, DCSCCL-253P-	1-8
Nova T CL 250W dimmer	NTCL-250-	1-10

Power supply **LP1 Product Family**	120V Part No.	277V Part No.	Drivers per Control 120V	Drivers per Control 277V
NovaT®	NTF-10-	NTF-10-277-	1 - 16	1-19
	NTF-103P-	NTF-103P-277-	1-8	1-14
Nova®	NF-10-	NF-10-277-	1-8	1-19
	NF-103P-	NF-103P-277-	1-8	1-14
Skylark®	SF-10P-	SF-12P-277-	1-8	1-14
	SF-103P-	SF-12P-277-3	1-8	1-14
Diva®	DVF-103P-	DVF-103P-277-	1-8	1-14
	DVSCF-103P-	DVSCF-103P-277-	1-8	1-14
Ariadni®	AYF-103P-	AYF-103P-277-	1-6	1-14
Maestro®	MAF-6AM-	MAF-6AM-277-	1-6	1-14
	MSCF-6AM-	MSCF-6AM-277-	1-6	1-14
Maestro Wireless®	MRF2-F6AN-DV-		1-6	1-14
RadioRA® 2	RRD-F6AN-DV-		1-6	1-14
HomeWorks® QS	HQRD-F6AN-DV		1-6	1-14
Interfaces	PHPM-3F-120	-	1-16	-
	PHPM-3F-DV		1-16	1-38
	BCI-0-10		1-16	1-38
GP Dimming Panels	Various		1-16	1-38
PowPak™ with EcoSystem	RMJ-ECO32-DV-B		32 per EcoSystem link	
	URMJ-ECO32-DVB		32 per EcoSystem link	
	FCJ-ECO		3 per EcoSystem link	
Energi Savr Node™ with EcoSystem	QSN-1ECO-S, QSN-2ECO-S, QSN-2ECO-PS120, UQSN-1ECO-S, UQSN-2ECO-S		64 per EcoSystem link	
GRAFIK Eye® QS with EcoSystem	QSGRJ-_E QSGR-_E	-	64 per EcoSystem link	
HomeWorks® QS with EcoSystem	LQSE-2ECO-D, QSGRJ-_E, QSGR-_E		64 per EcoSystem link	
Quantum®	QP2-_P_C		64 per EcoSystem link	

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