

# Slim Horticulture Drivers



## Common Features

- High Efficiency (Up to 96.0%)
- Fade Time Adjustable
- Hold Time Adjustable
- Adjustable Dimming Curve
- Input Surge Protection: DM 6kV, CM 10kV
- Panel Mount Connectors Facilitates Installation(MGS&MGR)
- Rotary Switch+RJ12 Connector (MGR)

## Special Features

### 110W, 220W, 330W, 440W

- 43.5mm Width
- Isolated Dimming: 0-10V / 10V PWM / Resistor / 3-Timer-Modes

### 760W, 1000W, 1500W

- 90mm Width
- Isolated Dimming: 0-10V / PWM / Resistor / 3-Timer-Modes

## SUM

Output Power (W)	Model No.	Full-power Current Range (mA)	Output Voltage Range (Vdc)	Eff. @ 220Vac	Dimensions (mm)
110	SUM-110S105MF/HF	700 ~ 1050	80 ~ 157	91.5%	206(182) × 43.5 × 31.5
	SUM-110S260MF/HF	1950 ~ 2600	30 ~ 56	90.5%	206(182) × 43.5 × 31.5
220	SUM-220S530MF/HF	4100 ~ 5300	34 ~ 54	94.0%	294(270) × 43.5 × 31.5
330	SUM-330S690MF/HF	6100 ~ 6900	34 ~ 54	94.5%	396(372) × 43.5 × 31.5
440	SUM-440S920MF/HF	8200 ~ 9200	34 ~ 54	94.5%	426(402) × 43.5 × 31.5
760	SUM-760S15AMG/MT	14000 ~ 15800	34 ~ 54	95.5%	379(354) × 90 × 48.5
	SUM-760S15AMGS	14000 ~ 15800	34 ~ 54	95.5%	415(390) × 108 × 48.5
	SUM-760S15AMGR	14000 ~ 15800	34 ~ 54	95.5%	415(390) × 108 × 48.5
1000	SUM-1K0S400M/MT	3200 ~ 4000	175 ~ 312	95.0%	414(389) × 90 × 48.5
	SUM-1K0S400MGS	3200 ~ 4000	175 ~ 312	95.0%	450(425) × 108 × 48.5
	SUM-1K0S400MGR	3200 ~ 4000	175 ~ 312	94.5%	450(425) × 108 × 48.5
	SUM-1K0S840M/MT	6700 ~ 8400	84 ~ 149	95.5%	414(389) × 90 × 48.5
	SUM-1K0S840MGS	6700 ~ 8400	84 ~ 149	95.5%	450(425) × 108 × 48.5
	SUM-1K0S840MGR	6700 ~ 8400	84 ~ 149	95.5%	414(389) × 90 × 48.5
	SUM-1K0S21AM/MT	18500 ~ 21000	34 ~ 54	95.5%	414(389) × 90 × 48.5
	SUM-1K0S21AMGS	18500 ~ 21000	34 ~ 54	95.5%	450(425) × 108 × 48.5
	SUM-1K0S21AMGR	18500 ~ 21000	34 ~ 54	95.5%	414(389) × 90 × 48.5
	SUM-1K5S800M/MT	4000 ~ 6000	175 ~ 375	95.5%	489(464) × 90 × 48.5
1500	SUM-1K5S12AM/MT	10000 ~ 12500	84 ~ 150	96.0%	489(464) × 90 × 48.5
	SUM-1K5S31AM/MT	28000 ~ 31500	34 ~ 54	96.0%	489(464) × 90 × 48.5

## SSM

Output Power (W)	Model No.	Full-power Current Range (mA)	Output Voltage Range (Vdc)	Eff. @ 480Vac	Dimensions (mm)
220	SSM-220S530MF/HF	4100 ~ 5300	34 ~ 54	94.0%	334(290) × 43.5 × 31.5
330	SSM-330S690MF/HF	6100 ~ 6900	34 ~ 54	94.5%	416(392) × 43.5 × 31.5
440	SSM-440S920MF/HF	8200 ~ 9200	34 ~ 54	94.5%	426(402) × 43.5 × 31.5
760	SSM-760S15AMG/MT	14000 ~ 15800	34 ~ 54	95.0%	379(354) × 90 × 48.5
	SSM-760S15AMGS	14000 ~ 15800	34 ~ 54	95.0%	415(390) × 108 × 48.5
	SSM-760S15AMGR	14000 ~ 15800	34 ~ 54	95.0%	415(390) × 108 × 48.5
1000	SSM-1K0S400M/MT	3200 ~ 4000	175 ~ 312	96.0%	414(389) × 90 × 48.5
	SSM-1K0S400MGS	3200 ~ 4000	175 ~ 312	96.0%	450(425) × 108 × 48.5
	SSM-1K0S400MGR	3200 ~ 4000	175 ~ 312	95.5%	450(425) × 108 × 48.5
	SSM-1K0S840M/MT	6700 ~ 8400	84 ~ 149	95.5%	414(389) × 90 × 48.5
	SSM-1K0S840MGS	6700 ~ 8400	84 ~ 149	95.5%	450(425) × 108 × 48.5
	SSM-1K0S840MGR	6700 ~ 8400	84 ~ 149	95.5%	414(389) × 90 × 48.5
	SSM-1K0S21AM/MT	18500 ~ 21000	34 ~ 54	96.0%	414(389) × 90 × 48.5
	SSM-1K0S21AMGS	18500 ~ 21000	34 ~ 54	96.0%	450(425) × 108 × 48.5
	SSM-1K0S21AMGR	18500 ~ 21000	34 ~ 54	96.0%	414(389) × 90 × 48.5
	SSM-1K5S800M/MT	4000 ~ 6000	175 ~ 375	96.0%	489(464) × 90 × 48.5
1500	SSM-1K5S12AM/MT	8300 ~ 12500	84 ~ 180	95.0%	489(464) × 90 × 48.5
	SSM-1K5S31AM/MT	28000 ~ 31500	34 ~ 54	96.0%	489(464) × 90 × 48.5

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Product Catalog

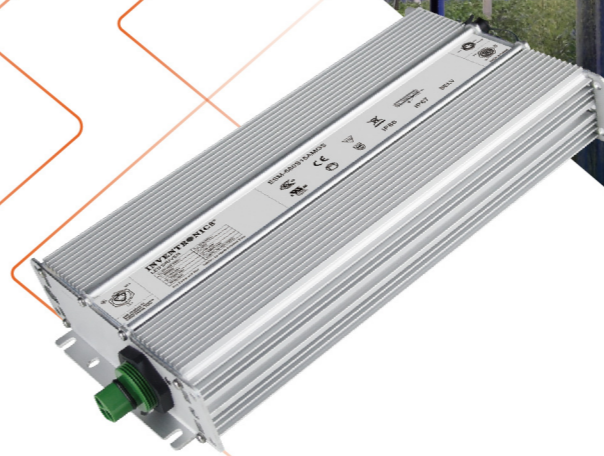
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Building a Brighter Future

## LED Drivers

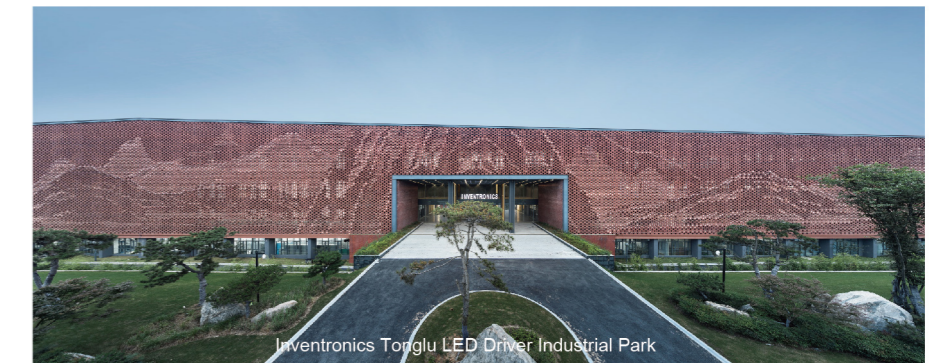
# Horticulture Lighting Applications



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## About Inventronics

Established in 2007, Inventronics is a premier worldwide producer of an extensive range of lighting products, including LED drivers, sensors, control systems, and LED modules. Our cutting-edge, reliable, and durable solutions are designed to meet all major international safety and performance standards. Our design teams, situated at our main office in Hangzhou, China, as well as regional hubs in Garching, Germany, Treviso, Italy, Delhi, India, and Shenzhen, China concentrate on developing low, mid, and high-power drivers, network control systems, and accessory products. Manufacturing is carried out at our cutting-edge Science and Technology Park in Tonglu, China, along with additional facilities in Mexico, Italy, and India. We welcome you to tour our factories and experience our unwavering commitment to quality firsthand.



# High-Input, 0-10V, 2/3 Independent Channel Output



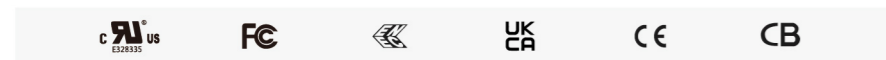
## Features

- Independent Output Channels and Independent Dimming
- Independent Dimming and Dim-to-Off
- Power Transfer Settable When 100W Channel is Off Status (1K0D)
- Power Transfer Settable When 135W Channel is Off Status (1K2T)
- Ultra High Efficiency (Up to 95.0%)
- Input Voltage Range: 249 ~ 528Vac
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Fade Time Adjustable
- Hold Time Adjustable
- Adjustable Dimming Curve
- Always-on Auxiliary Power: 12Vdc, 250mA
- Low Inrush Current
- Isolated 0-10V/PWM/3-Timer-Modes Dimmable
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off with Standby Power
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: IOVP,IUVP, OVP, SCP, OTP
- Hot-Plugging Protection
- Parallel LED Protection
- IP66 / IP67 and UL Dry / Damp / Wet Location
- TYPE HL, for Use in a Class I, Division 2 Hazardous (Classified) Location
- 5-Year Warranty

Model No.	Channel	Output Power (W)	Full-power Current Range(mA)	Output Voltage Range (Vdc)	Eff. @ 220Vac	Dimensions (mm)
ESM-1K0D610Mx	1	900	4600 ~ 6100	110 ~ 195	94.5%	349(324) × 144 × 48.5
	2	100	1850 ~ 2100	34 ~ 54		

Model No.	Channel	Output Power (W)	Full-power Current Range(mA)	Output Voltage Range (Vdc)	Eff. @ 480Vac	Dimensions (mm)
ESM-1K2T570Mx	1	930	4600 ~ 5700	81 ~ 202	95.0%	379(354) × 144 × 48.5
ESM-1K2T570Mx	2	135	1850 ~ 2100	45 ~ 73	95.0%	
ESM-1K2T570Mx	3	135	1850 ~ 2100	45 ~ 73	95.0%	

x = G are UL recognized, ENEC, etc. models; x = T are UL recognized, etc. models.



# 0-10V, 12V Aux, Panel Mount Connectors



## Common Features

- High Efficiency (Up to 96.0%)
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Input Voltage Range: 90 ~ 305Vac
- Always-on Auxiliary Power: 12Vdc, 250mA, 3W (Transient Peak Power up to 10W)
- Isolated 0-10V / PWM / 3-Timer-Modes Dimmable
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off with Standby Power ≤ 0.5 W
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: IUVP, IOVP, OVP, SCP, OTP
- IP66 / IP67 and UL Dry / Damp / Wet Location
- TYPE HL, for Use in a Class I, Division 2 Hazardous (Classified) Location
- 5-Year Warranty

## EUM-MGS Features

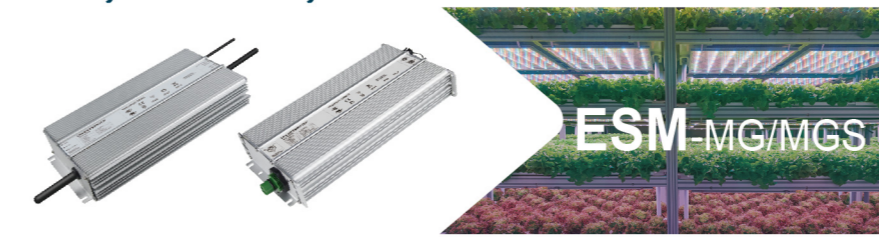
- Panel Mount Connectors Facilitate Installation
- Brackets Accommodate Variety of Hanging Applications

Output Power (W)	Model No.	Full-power Current Range (mA)	Output Voltage Range (Vdc)	Eff. @ 220vac	Dimensions (mm)
75	EUM-075S105Mx	700 ~ 1050	36 ~ 107	90.5%	142(125) × 67.5 × 36.5
	EUM-075S150Mx	1050 ~ 1500	25 ~ 72	89.5%	
	EUM-075S210Mx ★	1400 ~ 2100	18 ~ 54	89.0%	
100	EUM-100S105Mx	700 ~ 1050	48 ~ 143	92.5%	148(131) × 67.5 × 36.5
	EUM-100S150Mx	1050 ~ 1500	34 ~ 95	92.5%	
	EUM-100S280Mx ★	1750 ~ 2800	17 ~ 54	91.0%	
150	EUM-150S105Mx	700 ~ 1050	72 ~ 214	93.5%	178(161) × 67.5 × 36.5
	EUM-150S150Mx	1050 ~ 1500	50 ~ 143	93.0%	
	EUM-150S210Mx	1400 ~ 2100	36 ~ 107	92.5%	
	EUM-150S420Mx	2800 ~ 4200	18 ~ 54	91.5%	
	EUM-200S105Mx	700 ~ 1050	95 ~ 286	93.5%	
200	EUM-200S150Mx	1050 ~ 1500	67 ~ 190	93.5%	188(171) × 67.5 × 36.5
	EUM-200S280Mx	1800 ~ 2800	36 ~ 111	93.0%	
	EUM-200S560Mx	3500 ~ 5600	18 ~ 57	92.0%	
	EUM-240S105Mx	700 ~ 1050	115 ~ 343	94.0%	
	EUM-240S150Mx	1050 ~ 1500	80 ~ 229	93.5%	
240	EUM-240S350Mx	2150 ~ 3500	35 ~ 111	93.0%	218(201) × 67.5 × 38.5
	EUM-240S670Mx	4200 ~ 6700	18 ~ 57	92.5%	
	EUM-320S105Mx	700 ~ 1050	153 ~ 457	94.5%	
	EUM-320S150Mx	1050 ~ 1500	107 ~ 305	94.0%	
	EUM-320S250Mx	1750 ~ 2500	64 ~ 183	94.0%	
320	EUM-320S500Mx	2850 ~ 5000	32 ~ 112	93.5%	243(224) × 80 × 44.5
	EUM-320S760Mx	5350 ~ 7600	21 ~ 60	92.5%	
	EUM-480S140Mx	1050 ~ 1400	171 ~ 457	94.5%	
	EUM-480S280Mx	2100 ~ 2800	86 ~ 228	94.0%	
	EUM-480S420Mx	3150 ~ 4200	57 ~ 152	94.0%	
480	EUM-480S560Mx	4350 ~ 5600	43 ~ 110	94.0%	262(243) × 90 × 43.5
	EUM-480S10AMx	8600 ~ 10000	24 ~ 56	94.0%	
	EUM-680S170Mx/MGS	1250 ~ 1700	200 ~ 544	95.5%	
	EUM-680S240Mx/MGS	1800 ~ 2400	141.5 ~ 378	94.5%	
	EUM-680S350Mx/MGS	2600 ~ 3500	97.1 ~ 262	95.0%	
680	EUM-680S560Mx/MGS	4200 ~ 5600	60.7 ~ 163	94.5%	Mx: 275(250) × 135 × 46 MGS: 300(275) × 151 × 46
	EUM-680S840Mx/MGS	6300 ~ 8400	40.4 ~ 108	95.0%	
	EUM-680S15AMx/MGS	12600 ~ 15000	22.6 ~ 54	95.5%	
	EUM-880S280Mx/MGS	1950 ~ 2800	157 ~ 452	95.0%	
	EUM-880S420Mx/MGS	3000 ~ 4200	104 ~ 294	95.5%	
880	EUM-880S700Mx/MGS	4900 ~ 7000	63 ~ 180	96.0%	Mx: 275(250) × 144 × 48.5 MGS: 300(275) × 160 × 48.5
	EUM-880S11AMx/MGS	8000 ~ 11500	38 ~ 110	94.5%	
	EUM-880S20AMx/MGS	16300 ~ 20000	22 ~ 54	95.5%	
	EUM-1K2S350Mx/MGS	2600 ~ 3500	171 ~ 462	96.5%	
	EUM-1K2S525Mx/MGS	3950 ~ 5250	114 ~ 304	96.0%	
EUM-1K2S740Mx/MGS	5550 ~ 7400	81 ~ 217	96.5%		

★ : Class 2 Model



# High-Input, 0-10V, 12VAux, Panel Mount Connectors



## Common Features

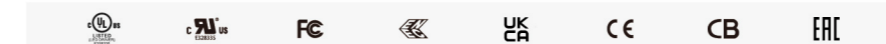
- High Efficiency (Up to 96.5%)
- Full Power at Wide Output Current Range (Constant Power)
- Adjustable Output Current (AOC) with Programmability
- Input Voltage Range: 249 ~ 528Vac
- Always-on Auxiliary Power: 12Vdc, 250mA, 3W (Transient Peak Power up to 10W)
- Isolated 0-10V / PWM / 3-Timer-Modes Dimmable
- INV Digital Dimming, UART Based Communication Protocol
- Dim-to-Off with Standby Power ≤ 0.5W
- Low Inrush Current
- Input Surge Protection: DM 6kV, CM 10kV
- All-Around Protection: IUVP, IOVP, OVP, SCP, OTP
- IP66 / IP67 and UL Dry / Damp / Wet Location
- TYPE HL, for Use in a Class I, Division 2 Hazardous (Classified) Location
- 5-Year Warranty

## ESM-MGS Features

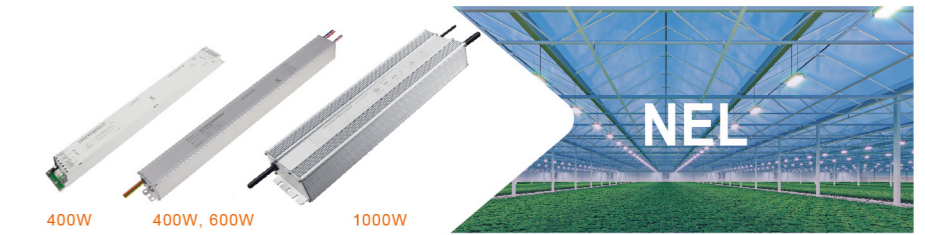
- Panel Mount Connectors Facilitate Installation
- Brackets Accommodates Variety of Hanging Applications

Output Power (W)	Model No.	Full-power Current Range (mA)	Output Voltage Range (Vdc)	Eff. @ 480Vac	Dimensions (mm)
150	ESM-150S105Mx	700 ~ 1050	72 ~ 214	93.5%	178(161) × 76.5 × 38.5
	ESM-150S150Mx	1050 ~ 1500	50 ~ 143	93.0%	
	ESM-150S210Mx	1400 ~ 2100	36 ~ 107	92.5%	
	ESM-150S420Mx	2800 ~ 4200	18 ~ 54	92.0%	
240	ESM-240S105Mx	700 ~ 1050	115 ~ 343	94.0%	218(201) × 76.5 × 38.5
	ESM-240S150Mx	1050 ~ 1500	80 ~ 229	93.5%	
	ESM-240S350Mx	2150 ~ 3500	35 ~ 111	93.0%	
	ESM-240S670Mx	4200 ~ 6700	18 ~ 57	92.5%	
	ESM-320S105Mx	700 ~ 1050	153 ~ 457	95.0%	
320	ESM-320S150Mx	1050 ~ 1500	107 ~ 305	94.5%	243(224) × 85 × 44.5
	ESM-320S250Mx	1750 ~ 2500	64 ~ 183	94.5%	
	ESM-320S500Mx	2850 ~ 5000	32 ~ 112	94.0%	
	ESM-320S760Mx	5350 ~ 7600	21 ~ 60	94.0%	
	ESM-480S140Mx	1050 ~ 1400	171 ~ 457	95.0%	
480	ESM-480S280Mx	2100 ~ 2800	86 ~ 228	94.0%	262(243) × 90 × 43.5
	ESM-480S420Mx	3150 ~ 4200	57 ~ 152	94.5%	
	ESM-480S560Mx	4350 ~ 5600	43 ~ 110	94.0%	
	ESM-480S10AMx	8600 ~ 10000	24 ~ 56	94.5%	
	ESM-680S170Mx/MGS	1250 ~ 1700	200 ~ 544	96.0%	
680	ESM-680S240Mx/MGS	1800 ~ 2400	141.5 ~ 378	95.5%	Mx: 275(250) × 135 × 46 MGS: 300(275) × 151 × 46
	ESM-680S350Mx/MGS	2600 ~ 3500	97.1 ~ 262	95.5%	
	ESM-680S560Mx/MGS	4200 ~ 5600	60.7 ~ 163	95.5%	
	ESM-680S840Mx/MGS	6300 ~ 8400	40.4 ~ 108	95.5%	
	ESM-680S15AMx/MGS	12600 ~ 15600	22.6 ~ 54	94.5%	
880	ESM-880S280Mx/MGS	1950 ~ 2800	157 ~ 452	96.0%	Mx: 275(250) × 144 × 48.5 MGS: 300(275) × 160 × 48.5
	ESM-880S420Mx/MGS	3000 ~ 4200	104 ~ 294	95.5%	
	ESM-880S700Mx/MGS	4900 ~ 7000	63 ~ 180	96.0%	
	ESM-880S11AMx/MGS	8000 ~ 11500	38 ~ 110	95.0%	
	ESM-880S20AMx/MGS	16300 ~ 20000	22 ~ 54	95.5%	
1200	ESM-1K2S350Mx/MGS	2600 ~ 3500	171 ~ 462	96.5%	Mx: 310(285) × 141 × 48.5 MGS: 325(300) × 166.5 × 49.5
	ESM-1K2S525Mx/MGS	3950 ~ 5250	114 ~ 304	96.0%	
	ESM-1K2S740Mx/MGS	5550 ~ 7400	81 ~ 217	96.5%	
	ESM-1K2S740Mx/MGS	5550 ~ 7400	81 ~ 217	96.5%	

x=G are UL Recognized, ENEC and CCC, etc. models; x=T are UL Class P models.



# 0-10V, 12V Aux, Non-Isolated, Slim Form Factor



## Common Features

- Ultra High Efficiency (Up to 97%)
- Non-Isolated Design with Low Residual Output Voltage < 2kV
- No Afterglow
- Adjustable Output Current (AOC) with Programmability
- Input Voltage Range: 180 ~ 457 Vac
- Always-on Auxiliary Power: 12Vdc, 250mA
- Dim-to-Off with Standby Power ≤ 0.5W
- Low Inrush Current
- Fade-Time Adjustable
- End-of-Life Indicator
- 5-Year Warranty

## Special Features

### 400W / 600W Features

- 43mm Width (Mx Model)/40.5mm Width (MP Model)
- Maximum Dimming Level with 9V or 10V Selectable
- Isolated 0-10V/10V PWM/Resistor/3-Timer-Modes Dimmable
- IP65 and UL Dry/Damp Location (MF Model)
- IP66/IP67 and UL Dry/Damp/Wet Location (MG/MT Models)
- IP20 (MP Model)
- Suitable for Luminaires with Protection Class I
- Input Surge Protection: DM 4 kV, CM 6 kV

### 1000W Features

- 90mm Width
- Hold Time Adjustable
- Adjustable Dimming Curve
- INV Digital Dimming, UART Based Communication Protocol
- Isolated 0-10V/PWM/Resistor/3-Timer-Modes Dimmable
- IP66/IP67 and UL Dry/Damp/Wet Location
- All-Around Protection: IOVP, IUVP, OVP, SCP, OTP
- Input Surge Protection: DM 6kV, CM 10kV

Output Power (W)	Model No.	Output Current (mA)	Output Voltage Range (Vdc)	Eff. @ 400Vac	Dimensions (mm)
400	NEL-400S140MP	730 ~ 1400	150 ~ 550	97.0%	452 × 40.5 × 40
	NEL-400S140Mx	730 ~ 1400	150 ~ 550	97.0%	MF: 452(431) × 43 × 38 MG/MT: 462(441) × 43 × 38
600	NEL-600S220Mx	1100 ~ 2200	150 ~ 550	96.5%	MF: 452(431) × 43 × 38 MG/MT: 462(441) × 43 × 38
1000	NEL-1K0S400Mx	2000 ~ 4000	150 ~ 500	96.5%	310(291) × 90 × 42.5

P = Push Terminals ; x = F are UL Class P, ENEC, CE, etc. models with flying leads; x = G are UL Recognized, ENEC, CE, etc. models; x = T are UL Class P models

