

The Commercial
LED Lighting Specialist

Superlight[®]

Constant Voltage Drivers

PRODUCT CATEGORY DATA SHEET

Constant Voltage Drivers

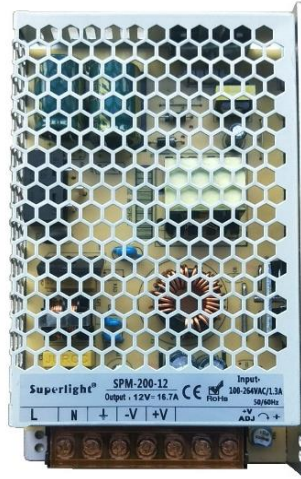
Summary

Model Number	Input Voltage	Output Power	Output Current	IP Rating	Dimension
SPM-100-12	12V DC	100w	8.22A	IP20	98x130x30mm
SPM-200-12	12V DC	200w	16.66A	IP20	98x160x30mm
SPM-400-12	12V DC	400w	33.3A	IP20	115x215x30mm
SPL-120-12	12V DC	120w	10A	IP20	48x146x24mm
SPL-250-12	12V DC	250w	20.8A	IP20	63x208x30mm
SPL-400-12	12V DC	400w	33.3A	IP20	63x227x30mm
SPUW-12V 150W	12V DC	150w	12.5A	IP67	260x58x25mm
SPUW-12V 300W	12V DC	300w	25A	IP67	372x58x25mm
SPM-100-24	24V DC	100w	4.17A	IP20	98x130x30mm
SPM-200-24	24V DC	200w	8.33A	IP20	98x160x30mm
SPM-400-24	24V DC	400w	16.7A	IP20	115x215x30mm
SPL-120-24	24V DC	120w	5A	IP20	48x146x24mm
SPL-250-24	24V DC	250w	10.4A	IP20	63x208x30mm
SPL-400-24	24V DC	400w	16.7A	IP20	63x227x30mm
SPUW-24V 150W	24V DC	150w	6.25A	IP67	260x58x25mm
SPUW-24V 300W	24V DC	400w	12.5A	IP67	372x58x25mm

12V Constant Voltage Drivers - SPM Models



SPM-100-12



SPM-200-12



SPM-400-12

DC
12V

CV

ta
MAX 60°C

tc
MAX 70°C

PFC
λ ≥ 0,60

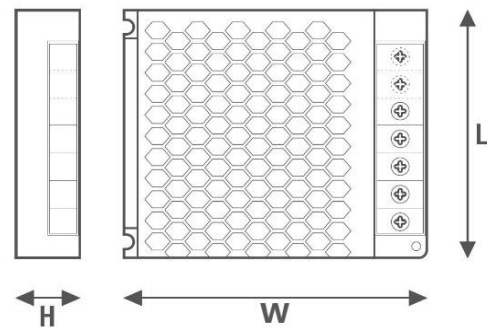
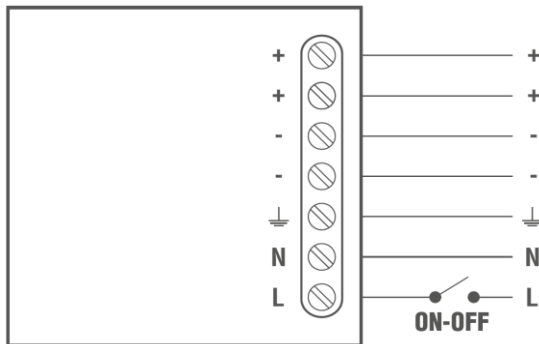
Technical Features

- Input voltage range: 110-240VAC
- Input frequency: 50 ~ 60Hz
- Constant voltage output: 12VDC
- Potentiometer for adjusting the output voltage: ±10%
- Power factor correction (PFC): λ ≥ 0,60
- Efficiency: 84 ~ 86%
- Operating ambient temperature Ta: -20°C ~ +60°C
- Humidity: 20% ~ 90% RH
- Max case temperature on Tc: 70°C
- Double output terminal for SPM-100 and SPM-200 models
- Triple output terminal for SPM-400 model
- Overload protection (OLP)
- Overvoltage protection (OVP)
- Short circuit protection (SCP)

General Characteristics

- IP20 Rating
- Metallic case
- Electric class protection I
- Equipped with clamp cover
- Screw input and output terminals
- One year warranty

Wiring diagrams



Model	Input voltage (VAC)	Input frequency (HZ)	Output power (W)	Output voltage (VDC)	Output current (A)	PFC (λ)	Dimensions (mm)			Weight (kg)
							W	L	H	
SPM-100-12	110-240	50~60	100	12	8.33	0,6	130	98	30	0,32
SPM-200-12			200		16.66		160	98	30	0,5
SPM-400-12			400		33.3		215	115	30	0,67

12V Constant Voltage Drivers - SPL Models



SPL-120-12



SPL-250-12



SPL-400-12

DC
12V

CV



ta
MAX 60°C

tc
MAX 70°C

PFC
λ ≥ 0,60

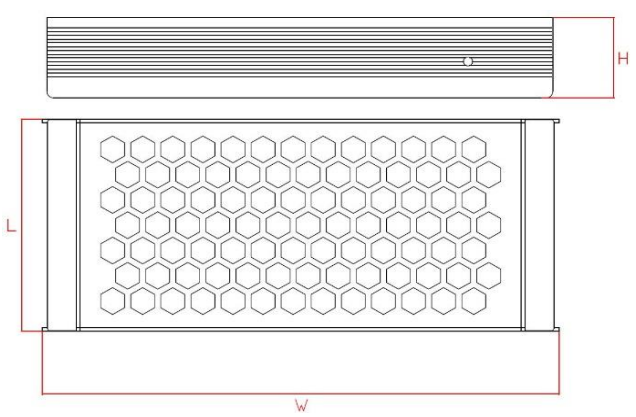
Technical Features

- Input voltage range: 170-260VAC
- Input frequency: 50 ~ 60Hz
- Constant voltage output: 12VDC
- Power factor correction (PFC): $\lambda \geq 0,60$
- Efficiency: 84 ~ 86%
- Operating ambient temperature Ta: -20°C ~ +60°C
- Humidity: 20% ~ 90% RH
- Max case temperature on Tc: 70°C
- Double output terminal
- Overload protection (OLP)
- Overvoltage protection (OVP)
- Short circuit protection (SCP)

General Characteristics

- IP20 Rating
- Metallic case
- Electric class protection I
- Equipped with clamp cover
- Screw input and output terminals
- One year warranty

Mechanical Specification



Model	Input voltage (VAC)	Input frequency (HZ)	Output power (W)	Output voltage (VDC)	Output current (A)	PFC (λ)	Dimensions (mm)			Weight (kg)
							W	L	H	
SPL-120-12	170-260	50~60	120	12	10	0,6	146	48	24	0,19
SPL-250-12			250		20.8		208	63	30	0,33
SPL-400-12			400		33.3		227	63	30	0,42

12V Constant Voltage Drivers - SPUW Models

DC
12V

CV

SPUW-12V
150W
12.5A



SPUW-12V
300W
25A



Superlight®

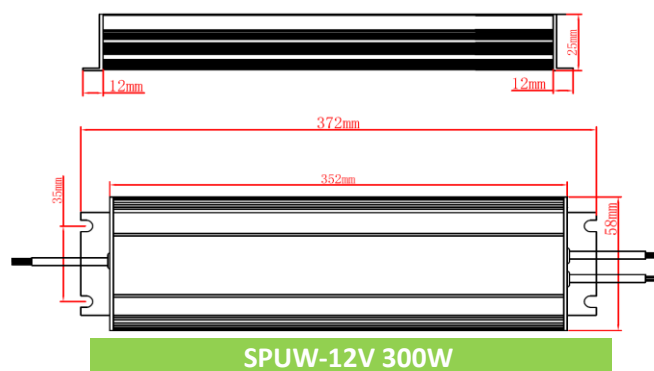
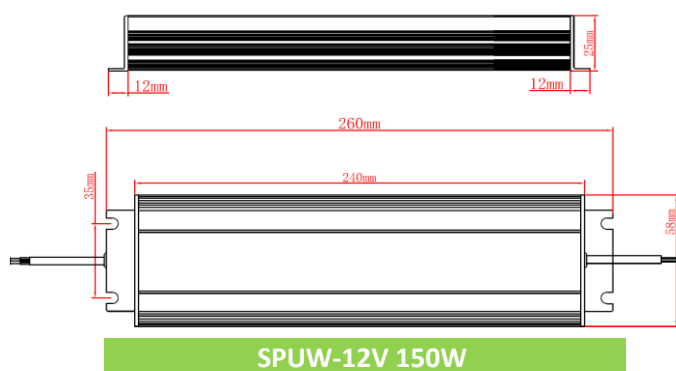
Technical Features

- Input voltage range: 110-260VAC
- Input frequency: 50 ~ 60Hz
- Constant voltage output: 12VDC
- Voltage Tolerance: $\pm 0.5V$
- Power factor correction (PFC): $\lambda \geq 0,60$
- Full Load Efficiency: 85%
- Working temperature : $-20^{\circ}C \sim +50^{\circ}C$
- Humidity: 20% ~ 60% RH
- Overload protection (OLP)
- Overvoltage protection (OVP)
- Short circuit protection (SCP)

General Characteristics

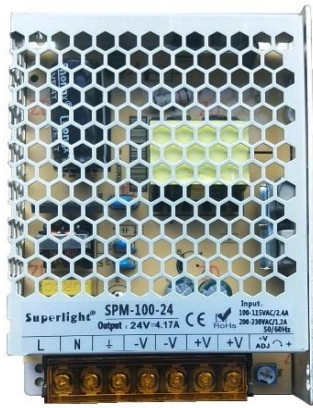
- IP67 Waterproof
- Cooling by free air convection
- One year warranty

Mechanical Specification

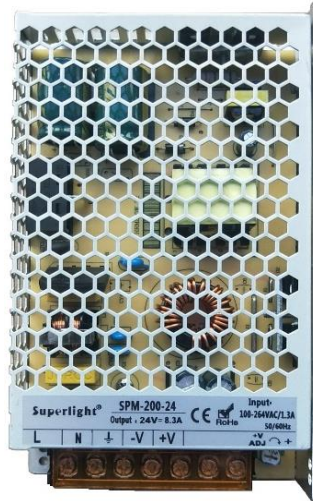


Model	Input voltage (VAC)	Input frequency (HZ)	Output power (W)	Output voltage (VDC)	Output current (A)	PFC (λ)	Dimensions LxWxH (mm)	Weight (kg)
SPUW-12V 150W	110-260	50~60	150	12	12.5	0,6	260x58x25	0,6
SPUW-12V 300W			300		25		372x58x25	0,93

24V Constant Voltage Drivers - SPM Models



SPM-100-24



SPM-200-24



SPM-400-24

DC
24V

CV

ta
MAX 60°C

tc
MAX 70°C

PFC
λ ≥ 0,60

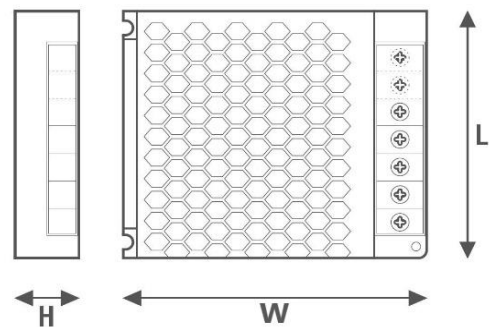
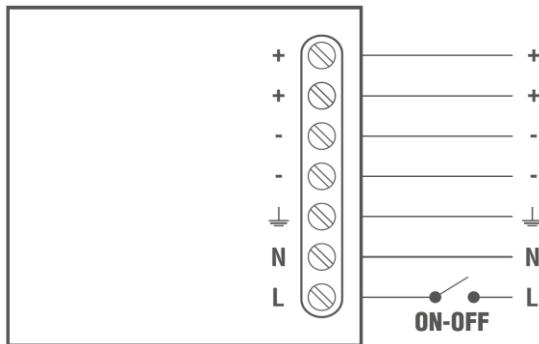
Technical Features

- Input voltage range: 110-240VAC
- Input frequency: 50 ~ 60Hz
- Constant voltage output: 24VDC
- Potentiometer for adjusting the output voltage: ±10%
- Power factor correction (PFC): λ ≥ 0,60
- Efficiency: 84 ~ 86%
- Operating ambient temperature Ta: -20°C ~ +60°C
- Humidity: 20% ~ 90% RH
- Max case temperature on Tc: 70°C
- Double output terminal for SPM-100 and SPM-200 models
- Triple output terminal for SPM-400 model
- Overload protection (OLP)
- Overvoltage protection (OVP)
- Short circuit protection (SCP)

General Characteristics

- IP20 Rating
- Metallic case
- Electric class protection I
- Equipped with clamp cover
- Screw input and output terminals
- One year warranty

Wiring diagrams



Model	Input voltage (VAC)	Input frequency (HZ)	Output power (W)	Output voltage (VDC)	Output current (A)	PFC (λ)	Dimensions (mm)			Weight (kg)
							W	L	H	
SPM-100-24	110-240	50~60	100	24	4.17	0,6	130	98	30	0,32
SPM-200-24			200		8.33		160	98	30	0,5
SPM-400-24			400		16.7		215	115	30	0,67

24V Constant Voltage Drivers - SPL Models



SPL-120-24



SPL-250-24



SPL-400-24

DC
24V

CV

ta
MAX 60°C

tc
MAX 70°C

PFC
λ ≥ 0,60

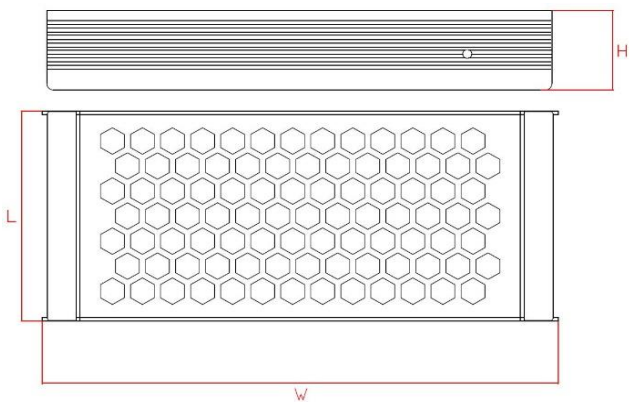
Technical Features

- Input voltage range: 170-260VAC
- Input frequency: 50 ~ 60Hz
- Constant voltage output: 24VDC
- Power factor correction (PFC): λ ≥ 0,60
- Efficiency: 84 ~ 86%
- Operating ambient temperature Ta: -20°C ~ +60°C
- Humidity: 20% ~ 90% RH
- Max case temperature on Tc: 70°C
- Double output terminal
- Overload protection (OLP)
- Overvoltage protection (OVP)
- Short circuit protection (SCP)

General Characteristics

- IP20 Rating
- Metallic case
- Electric class protection I
- Equipped with clamp cover
- Screw input and output terminals
- One year warranty

Mechanical Specification



Model	Input voltage (VAC)	Input frequency (HZ)	Output power (W)	Output voltage (VDC)	Output current (A)	PFC (λ)	Dimensions (mm)			Weight (kg)
							W	L	H	
SPL-120-24	170-260	50~60	120	24	5	0,6	146	48	24	0,19
SPL-250-24			250		10.4		208	63	30	0,33
SPL-400-24			400		16.7		227	63	30	0,42

24V Constant Voltage Drivers - SPUW Models

DC
24V

CV

SPUW-24V
150W
6.25A



SPUW-24V
300W
12.5A



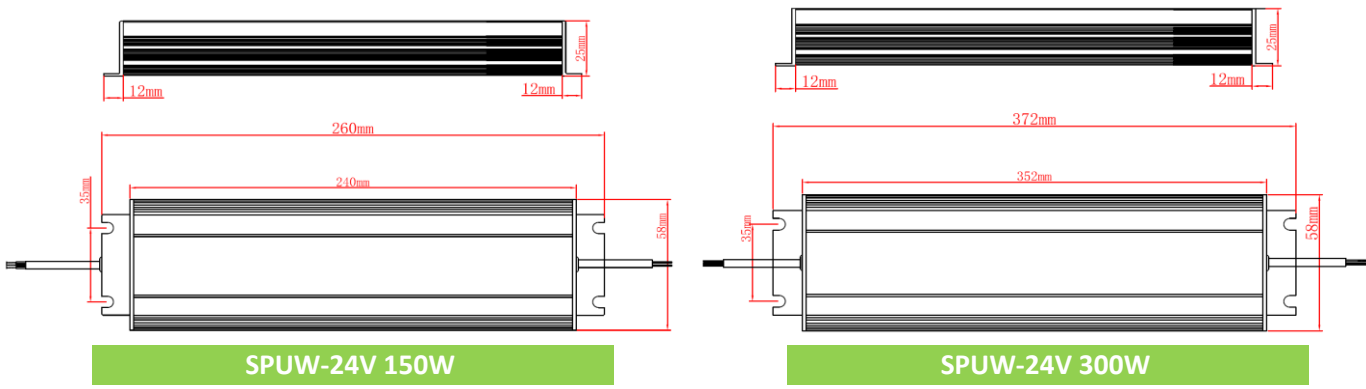
Technical Features

- Input voltage range: 110-260VAC
- Input frequency: 50 ~ 60Hz
- Constant voltage output: 24VDC
- Voltage Tolerance: $\pm 0.5V$
- Power factor correction (PFC): $\lambda \geq 0,60$
- Full Load Efficiency: 85%
- Working temperature : -20°C ~ +50°C
- Humidity: 20% ~ 60% RH
- Overload protection (OLP)
- Overvoltage protection (OVP)
- Short circuit protection (SCP)

General Characteristics

- IP67 Waterproof
- Cooling by free air convection
- One year warranty

Mechanical Specification



SPUW-24V 150W

SPUW-24V 300W

Model	Input voltage (VAC)	Input frequency (HZ)	Output power (W)	Output voltage (VDC)	Output current (A)	PFC (λ)	Dimensions LxWxH (mm)	Weight (kg)
SPUW-24V 150W	110-260	50~60	150	24	6.25	0,6	260x58x25	0,6
SPUW-24V 300W			300		12.5		372x58x25	0,93