



# LED DRIVER DATASHEET

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Current  DS



by Schneider Electric

# About

This device is intended for DC Public lighting. LED Drivers are combined with AM1L. LED Drivers can also be integrated and directly connected to the DC grid using Current Router – DC Protection device.

# Applications

- Public lighting

# Features

- Full control by Power line communication
- Setting parameters by IRDA communication
- PLC Mesh, star, or point-to-point network topology
- Electrical Mesh, star, or point-to-point
- Peak efficiency >90%
- Bipolar  $\pm 350\text{Vdc}$  or single  $350\text{Vdc}$  grids
- LED panel ELVDC <60V / <120V
- Monitoring
- Solid filled epoxy enclosure
- 10...100% dimming range
- No inrush current
- 3kA Lighting protection
- Current/OS client v1.0
- 100% digital based on a DSP
- Firmware can be updated
- Source must have a Zone 4 protection
- Communication 1.3km with direct communication

# LED Driver 60V/60W

## Logistical data

Specification item	Value
Product name	LDC-60V-60W-1P-350V-LOVP1
Minimal order quantity MOQ	20
Pieces per box	20

## Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	350	V dc	
Maximal input voltage	380	V dc	Nominal working
Minimal input voltage	320	V dc	Nominal working
Max input power	60	W	@1.2A / 50V output
Efficiency	>90	%	100% output
Standby power	<2.5	W	PLC Active

## Electrical output data

Specification item	Value	Unit	Condition
Max output voltage	60	V dc	
Min output voltage	10	V dc	
Max output current	1.2	A dc	
Min output current	100	mA	Not advised to operate LED below 100mA
Max output power	60	W	Power is depended on the voltage of the LED fixture and the maximum allowable current trough the LED's.

## Electrical connections

Specification item	Value	Unit	Condition
Incoming cable minimal	2.5	mm <sup>2</sup>	LS-99 DC
Incoming cable maximum	16	mm <sup>2</sup>	LS-99 DC
Luminaire outgoing cable min	0.4	mm <sup>2</sup>	
Luminaire outgoing cable max	1.5	mm <sup>2</sup>	

## Surge protection

Specification item	Value	Unit	Condition
Peak current Rating per 8/20us	3	kA	25 °C
Absolute clamp voltage	540	Vdc	@3kA

## Mechanical data

Specification item	Value	Unit	Condition
Height	148	mm	
Width	74	mm	
Depth	40.5	mm	Excluding PLC module add 19mm
Weight	460	grams	Excluding PLC module, PLC module add extra 270gr
IP rating driver	IP67		Electronics IP67 but connector limits.
IP rating enclosure	IP23		LS-99 DC

## Environment conditionals

Specification item	Value	Unit	Condition
Max ambient temperature	70	°C	Standby
Max ambient temperature 100%	40	°C	Full power w/o derating
Min ambient temperature	-20	°C	Standby
Ambient temperature (T-Life)	75	°C	
Storage temperature	10...30	°C	
Humidity operation	95	%	Noncondensing
Humidity storage	80	%	

# LED Driver 120V/120W

## Logistical data

Specification item	Value
Product name	LDC-120V-120W-1P-350V-LOVP1
Minimal order quantity MOQ	20
Pieces per box	20

## Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	350	V dc	
Maximal input voltage	380	V dc	Nominal working
Minimal input voltage	320	V dc	Nominal working
Max input power	60	W	@1.2A / 50V output
	120	W	@1.2A / 100V output
Efficiency	>90	%	100% output
Standby power	<2.5	W	PLC Active

## Electrical output data

Specification item	Value	Unit	Condition
Max output voltage	120	V dc	
Min output voltage	50	V dc	
Max output current	1.2	A dc	
Min output current	100	mA	Not advised to operate LED below 100mA
Max output power	120	W	Power is depended on the voltage of the LED fixture and the maximum allowable current trough the LED's.

## Electrical connections

Specification item	Value	Unit	Condition
Incoming cable minimal	2.5	mm <sup>2</sup>	LS-99 DC
Incoming cable maximum	16	mm <sup>2</sup>	LS-99 DC
Luminaire outgoing cable min	0.4	mm <sup>2</sup>	
Luminaire outgoing cable max	1.5	mm <sup>2</sup>	

## Surge protection

Specification item	Value	Unit	Condition
Peak current Rating per 8/20us	3	kA	25 °C
Absolute clamp voltage	540	Vdc	@3kA

## Mechanical data

Specification item	Value	Unit	Condition
Height	148	mm	
Width	74	mm	
Depth	40.5	mm	Excluding PLC module add 19mm
Weight	460	grams	Excluding PLC module, PLC module add extra 270gr
IP rating driver	IP67		Electronics IP67 but connector limits.
IP rating enclosure	IP23		LS-99 DC

## Environment conditionals

Specification item	Value	Unit	Condition
Max ambient temperature	70	°C	Standby
Max ambient temperature 100%	40	°C	Full power w/o derating
Min ambient temperature	-20	°C	Standby
Ambient temperature (T-Life)	75	°C	
Storage temperature	10...30	°C	
Humidity operation	95	%	Noncondensing
Humidity storage	80	%	



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For more information, visit  
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DC Systems  
Oosteinderweg 127C  
1432 AH Aalsmeer

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