

LED T8 24VDC

8W/12W/16W/20W

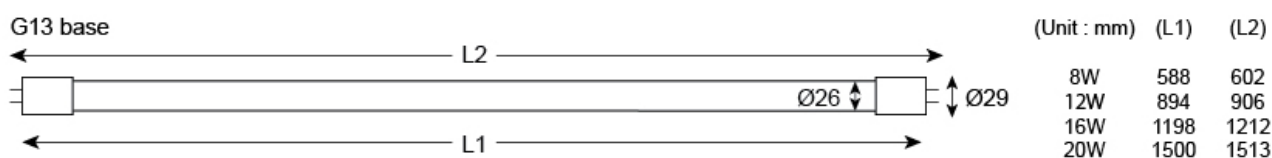
Features

- Energy saving with low power consumption
- Two pins connection allows flexible wiring for light up and bi-directional tube installation
- For 24Vdc input without polarity
- High efficacy up to 140lm/W
- Smooth operation even at low temperatures
- No mercury and hazardous substances
- Full glass body
- Operating voltage: 22-28V
- Good color rendition, Ra ≥80
- Applications: Train, tram, ferry, vessel systems, DC battery power system

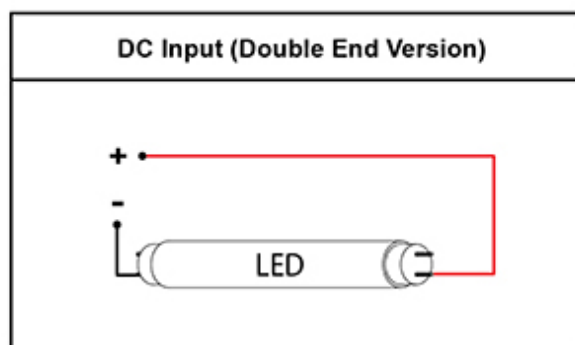
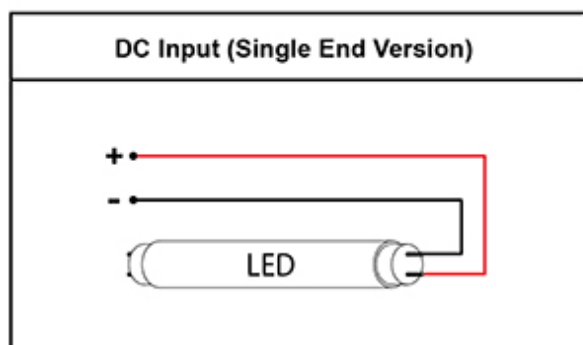


Diagrams

Dimensions:



Circuits:



- Direct 24Vdc input. Integral LED driver.
- Working current of 24Vdc LED tube is higher than fluorescent tube.
For parallel connection, check the current rating of G13 lamp socket.

Standards



IP20

Applications



Train



Tram



Vessel

Technical Data

Type of Light Source

Lighting Technology Used	LED
Non-directional or Directional [NDLS/DLS]	NDLS
Mains or Non-mains [MLS/NMLS]	NMLS
Connected Light Source	No
Color tunable light source	No
Envelop [No/Second/Non-Clear]	No
High Luminance Light Source	No
Anti-glare Shield	No

Electrical

Rated Wattage [W]	8W / 12W / 16W / 20W
On-mode Power [W]	8W / 12W / 16W / 20W
Standby Power [W]	N/A

Prosperity Lamps & Components Ltd.

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Networked Standby Power [W]	N/A
Rated Voltage [V/Hz]	24Vdc
Input Current [mA] @24V	333 / 500 / 667 / 833
Model	
LED F8T8/8XX/G/24V/600	8W
LED F12T8/8XX/G/24V/900	12W
LED F16T8/8XX/G/24V/1200	16W
LED F20T8/8XX/G/24V/1500	20W
Luminous Flux [lm]	
8W	1080lm @3000K
	1120lm @4000K
	1120lm @6500K
12W	1620lm @3000K
	1680lm @4000K
	1680lm @6500K
16W	2160lm @3000K
	2240lm @4000K
	2240lm @6500K
20W	2700lm @3000K
	2800lm @4000K
	2800lm @6500K
Performance	
SDCM	<6
Chromaticity coordinates [x, y]	0.44, 0.403@3000K / 0.38, 0.38@4000K / 0.312, 0.335@6500K
Efficacy [lm/W]	135-140
Color Rendering Index [Ra]	≥80
R9 colour rendering index value	2
Beam Angle [°]	280
Rated Life, Ta@25°C [hrs]	50,000
Survival Factor	0.9
Lumen Maintenance Factor	0.96
Number of Switching Cycles Before Failure	>15,000
Starting Time [S]	<0.5
Warm Up Time [S]	<2
Premature Failure At 1000hrs	<5%
Displacement Factor [cosØ]	N/A
Flicker Metric [Pst LM]	N/A
Stroboscopic Effect Metric [SVM]	N/A
Mechanical	
Diameter D [mm]	Φ29
Length L [mm]	600 / 900 / 1200 / 1500
Base	G13
Material	Glass

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Standard Compliance	
CE-LVD	EN62776
CE-EMC	EN55015, EN61547, EN61000-3-2, EN61000-3-3
CE-EMF	EN62493
Environment	RoHS
Mercury Content [mg]	0.0
Energy Class	E
Other	
Dimmable [Yes/Only with specific dimmers/No]	N
Operation Temperature	-20°C ~ 50°C
Storage Temperature	-10°C ~ 30°C
Energy Consumption in on-mode [kWh/1000h]	8kWh / 12kWh / 16kWh / 20kWh