

It runs with
the Sun

PowerCom

ORGANIC LED Tube Lighting

Product Description-Tube >>

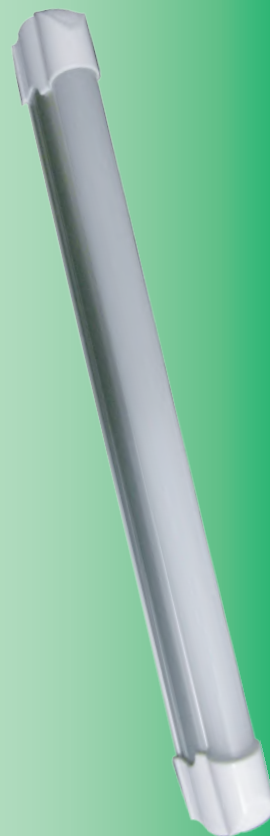
Chips-On-Board is a new technology of LED integration for LED light engine. Multi LED chips are integrated together as one lighting module. COB can increase 10 times more lighting area. Tube LED solar operated lighting is new cutting edge technology with advantage of saving energy and very long lifespan compare to traditional lighting such as fluorescent and incandescent lamp. POWERCOM-an ISO 9001:2008 certified company is exploring Organic LED lighting for the rural extreme- poor people of energy-starved Bangladesh with very bottom rock price maintaining quality management system.

Technological Disadvantages >>

- * Viewing angle not 360 deg
- * As it is super bright in a small size, it cause uncomfortable glare
- * Do loss light efficacy when it pass through diffuser
- * Photo biological safety recommended due to blue-hazard

Technological Advantages >>

- * **Tremendous Energy Saving:** In the same brightness saving more than 80-90% energy compared with conventional lamps
- * **Super Long Lifespan:** Lifespan can be up to 50000 hours, equivalent to energy-saving lamps 5 -10 times
- * **Low Heat Dissipation:** Solid cold light source, epoxy resin packaging, lower heat dissipation
- * **Healthy and Eco-friendly:** No flash, no mercury or other hazardous materials, accord with RoHS
- * **Good Color Rendering:** Lossless, color restore, visual clarity
- * **Vibration Resistance:** Made of Space aluminum, Strong and not easy to damage or break
- * **Efficiency:** Instant start, Low maintenance cost, No RF Interference, good performance



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Technical Parameters: Optical and Electrical >>

Parameters	SWO3WT	SWO5WT	SWO5WT
Input Power	03W	05W	07W
Luminous Flux	270lm	450lm	630lm
Light Efficacy	90lm/W	90lm/W	90lm/W
Tube	T5/T8	T5/T8	T5/T8
Beam Angle	125°	125°	125°
Power Factor	>0.9	>0.9	>0.9
Input Voltage DC	12V	12V	12V
Ballast Frequency	25-30kHz	25-30kHz	25-30kHz
Correlated Color Temperature	6500°K	6500°K	6500°K
Color Rendering Index	72	72	72
Protection Level	IP20	IP20	IP20
Service Life	35,000h	35,000h	35,000h
Electrical life	50,000h	50,000h	50,000h
Working Temperature	-20 to + 55°C	-20 to + 55°C	-20 to + 55°C

Salient features >>

Parents company Approvals

Color Tones
Base/Holder
Tube Diameter
Light Source Chip
Integration of LED
Body material
Diffuser

RoHS,CE,UL

Cool Color/Warm color
3-PIN auto polarity lock
T8/T5
CREE
SMD
Extruded Aluminum
Milky PC / Frosted

General features >>

- * Easy mounting to wall and roof by CLOP
- * Easy maintenance
- * Auto lock pin holder to mitigate loose connection and wrong polarity
- * No blackening problem
- * Huge illumination over the life time
- * 72hours aging test
- * Special circuit design, each LED working separately, no influence from broken ones
- * Isolated driver to protect RF interference and electrical wave
- * Applying surface oxidation treatment, to resist corrosion and oxidation
- * Parents' company accord with biomedical safety test

Applications >>

Hotels / Conference Rooms / Factories / Offices / Commercial Complexes / Residential / Institutional Buildings / Schools, Colleges & Universities / Hospitals



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