

Every maintenance specialist servicing industrial facilities knows that when the time comes to fix broken equipment, finding required correct replacement part may be a challenge. Especially, if there are several variations of that said equipment have been installed throughout the years and all around the site.

LED lighting systems are no exception. Facilities go through various upgrades, expansions, new-builds, capital projects, etc. In most cases they end up with LED products from various manufacturers that use different spare parts within the same product line. Most products are not even designed to last past warranty period and can not be fixed on site. Maintenance of such products becomes a nightmare and they eventually end up in the garbage.

*In the year 2009 BDS Industrial Solutions Inc. introduced its **modular LED lighting system** that features interchangeable and field replaceable standardized components.*

## Standardization

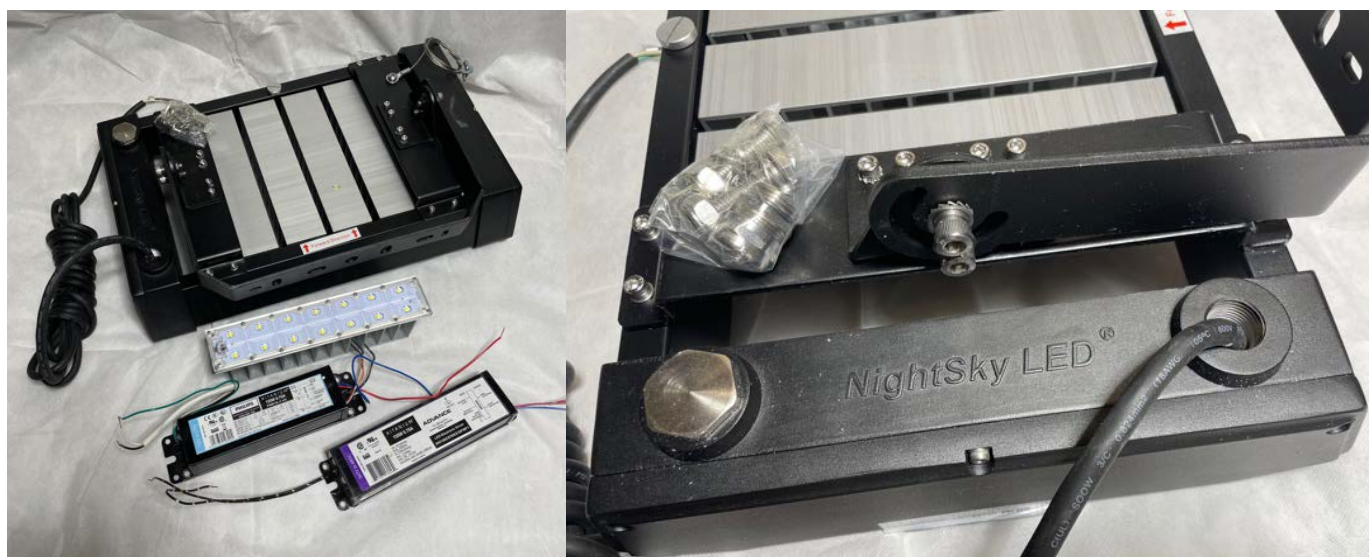
All NighSky LED® fixtures (Panel Light Series, Street Light Series and Wallpack Series) are designed to be easily retrofitted on site with standardized components. NightSky LED® fixtures use interchangeable and upgradable parts suitable for Hazardous Locations, Marine and other Heavy Industrial environments (LED Modules, Connectors, Brackets and Power Supplies).



## System's Components

All brand-new LED modules of these Series will fit fixtures manufactured since 2009. BDS Industrial Solutions Inc. continues to supply replacement modules that allow post-warranty service to be a breeze. We do not stock old generation LED Modules. Instead, we produce new ones in on-demand required quantities. They are all standard and fit existing and brand-new fixtures. So, when you replace NightSky LED<sup>®</sup> module on an old fixture frame, you get the latest available generation of LED chips with the best available performance to date.

- We use Stainless Steel hardware and all threads that are exposed to the outside elements feature NeverSeez<sup>®</sup> treatment to prevent unwanted oxidation.
- LED Modules are wired using Molex<sup>®</sup> waterproof quick connectors.
- 10 different sizes of fixtures are available depending on the light output requirement.



*Note: Size 6 NightSky LED<sup>®</sup> Panel Light Series (180-Watt output) with YL bracket is shown on all pictures in this document.*

Replacement of Power Supply (LED Driver) is done using the same principle. Simply remove outside cover using Allen key and replace standard universal driver inside the compartment. All main electrical connections feature WAGO<sup>®</sup> quick connectors. No special tools are needed to re-wire the whole fixture.

Drivers are interchangeable. We use high performance constant current LED drivers that have the same output regardless of the voltage input. 120-277VAC and 347-480VAC drivers as well as DC-DC options are available. Simply swap the driver to a different one and fixture will work on that required input voltage.

*Even after standard **10-years limited warranty** all NightSky LED<sup>®</sup> fixtures can be converted into a new system with up-to-date performance.*

## Some key design points

- Modular design allows for a whole site lighting standardization. Wide range of power output combined with a selection of high-performance optics deliver pleasing long-lasting results.
- Fixtures are suitable for indoor, outdoor, cold, hot, wet, marine and hazardous locations: Class I, Division 2, Group A, B, C, D; Class II, Division 1, Groups E, F, G.
- NightSky LED<sup>®</sup> luminaires are designed for operation in -40°C to +65°C (-40°F to +140°F) and 10% ~ 95% humidity ambient environments.
- Mounting adaptors allow NightSky LED<sup>®</sup> system to be used in highbay, lowbay, walkways, flood, wall and pole mounting, high masts, moving equipment and other lighting applications.
- NightSky LED<sup>®</sup> Panel Light Series feature two (2) threaded wireways in main Driver Compartment. NPT 1/2" and NPT 3/4" tapered pipe threads are standard. Contact plant for other threads options.
- Aircraft cable is supplied as a standard safety fall-restraint. Contact plant if additional safety accessories are required.
- Optional Accessories like Stainless Steel Debris Shields (inserted between LED Module heatsinks to prevent debris clogging heatsink fins), Softbox Diffusers (to provide UP-LIGHT and eliminate glare at low height installations), mounting adapters (for Crouse-Hinds<sup>®</sup> Champ<sup>®</sup> mounts), suspension kits, slipfitters, and other custom AdaptorMount<sup>®</sup> brackets are available upon request.
- Dimming, custom wired and wireless lighting controls (custom integrations with your PLCs) are designed and supplied as required.

Feel free to contact your local sales representative or reach out to us directly if you have any questions about NightSky LED<sup>®</sup> light fixtures family.

BDS Industrial Solutions Inc.  
[www.bdsindustrial.com](http://www.bdsindustrial.com)

