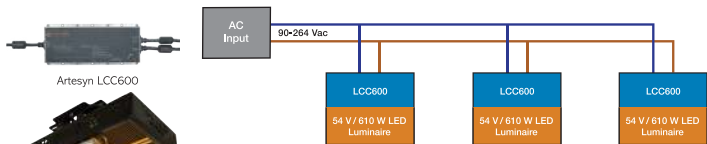


Power Architecture Examples Using Spectrum King LED/Artesyn Power Supplies

Conventional Power Distribution with Integrated Luminaire + Driver



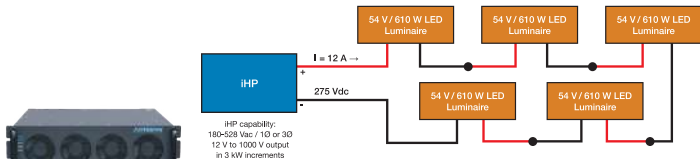
Artesyn LCC600

Spectrum King SK602

Example shown using Artesyn's LCC600 supply/driver integrated into a Spectrum King SK602 (610 W) luminaire.

- Easily adaptable for retrofit (can utilize existing power/wiring infrastructure) and new installations
- Heat generated by both luminaire and driver/power supply needs to be considered in energy/cooling calculations

Centralized Power with Distributed Lighting using 54 V LED String in Serial Configuration

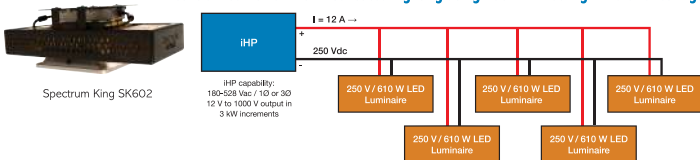


Artesyn iHP 12KW

iHP example shown using one (1) 3 kW module set to 275 Vdc, 12 A constant current output.

- Centralized power source and the associated conversion/heat losses can be managed separately outside the environmentally controlled growth space, lowering cooling and energy cost
- Higher voltage distribution can help reduce total installation cost (e.g., reduced wire sizes)
- Faults in serial configuration can shut down all the luminaires connected in the same loop

Centralized Power with Distributed Lighting using 250 V LED String in Parallel Configuration



Spectrum King SK602

iHP example shown using one (1) 3 kW module set to 250 Vdc, 12 A constant current output.

- Centralized power source and the associated conversion/heat losses can be managed separately outside the environmentally controlled growth space, lowering cooling and energy cost
- Higher voltage distribution can help reduce total installation cost (e.g., reduced wire sizes)
- Faults in parallel configuration will not shut down all luminaires connected on the same power rail