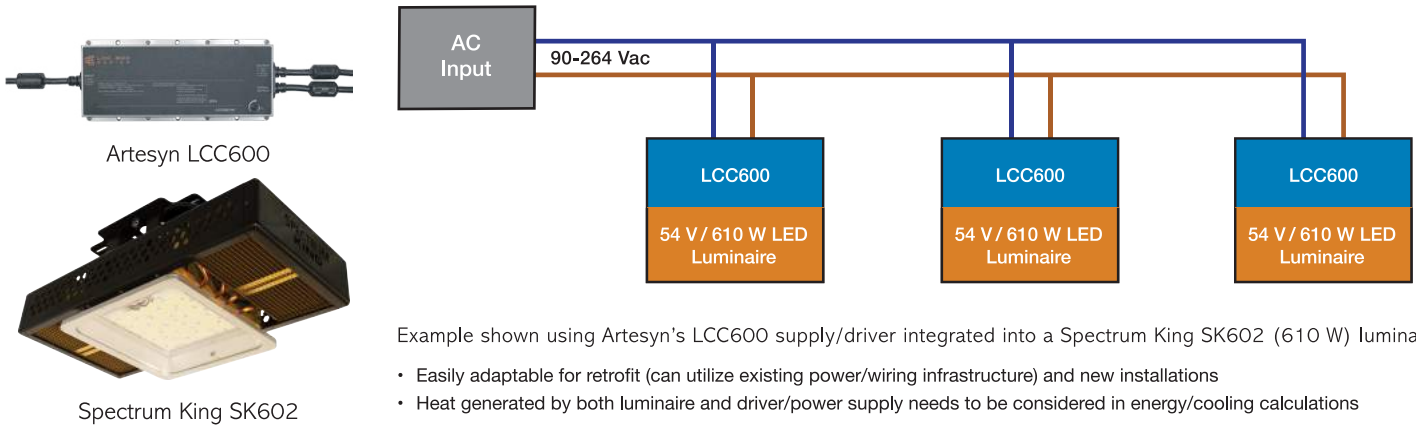
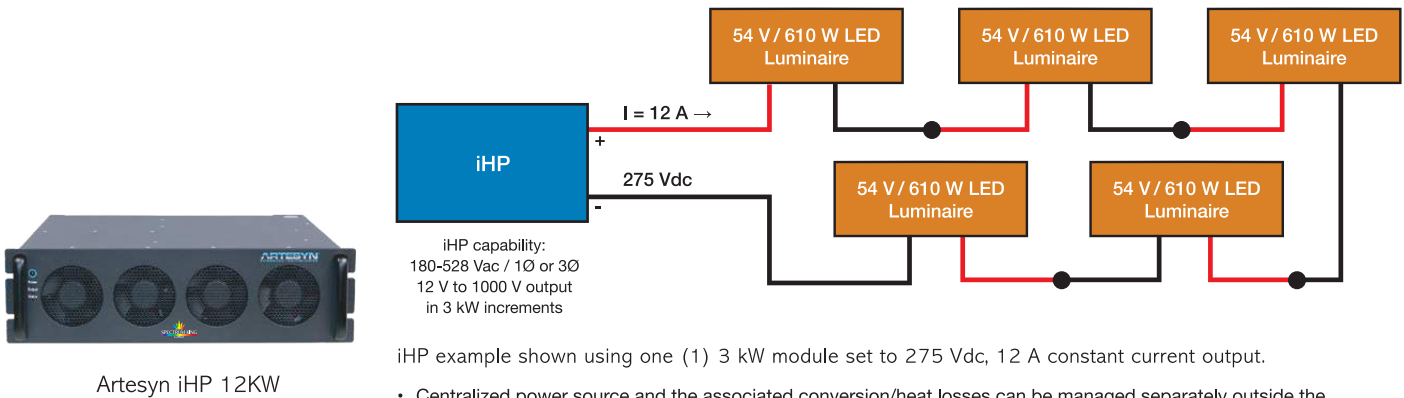


# Power Architecture Examples Using Spectrum King LED/Artesyn Power Supplies

## Conventional Power Distribution with Integrated Luminaire + Driver



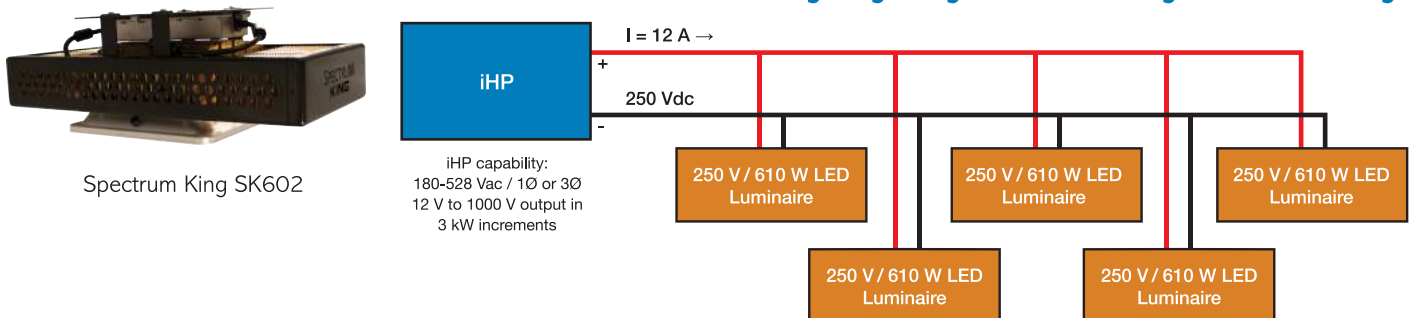
## Centralized Power with Distributed Lighting using 54 V LED String in Serial Configuration



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



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