CASE STUDY

Indoor Farming

INDUSTRY	SOLUTION	EQUIPMENT
Horticulture	iHP Series	LED Lighting

There is increasing interest in indoor farms, where shipping containers or similar structures are used to house shelves of plants, with lighting and nutrients supplied and carefully controlled to manage the growth of the crop. Advocates of this type of agriculture argue that this method of growing crops can be done closer to consumers (reducing food miles), without pesticides or other chemicals thanks to the contained environment, and using less water than conventional outdoor agriculture. One pioneering creator of indoor farming solutions has adopted the iHP series configurable digital high power system to provide the DC power for their custom-engineered horticultural LED lights. These provide specific photon wavelengths and intensity, enabling the customer to create customized “light recipes” for each crop. The iHP series provides up to 24 kW in 3 kW increments and can be configured for up to 8 outputs using a wide variety of plug-in modules that address a large range of voltages and currents. It provides the user with analog and digital control as either a programmable voltage or current source. Using up to 99% less water, no pesticides or herbicides, reducing food miles by up to 93%, and having unrivalled control over the crops means that indoor farming may be the future for many communities around the world and off the planet.

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