



Using HI6600 Power over Cat5e

Deploying a HI6600 system up to 500 feet (150 meters) may require an external power source depending on total number of channels and the number and type of load cells used on each channel. Distributing power over Cat5e cabling to a fully loaded system (30 channels, 30 junction boxes and up to 120 x 350 Ohm load cells) is beyond the current carrying ability of Cat5e cable.

Deploying a fully loaded system up to 500 feet poses no harm to the instrumentation or sensors; however, the inability to supply sufficient current over Cat5e can prevent the system from discovering modules or trip an over-current protection circuit until the condition is cleared.

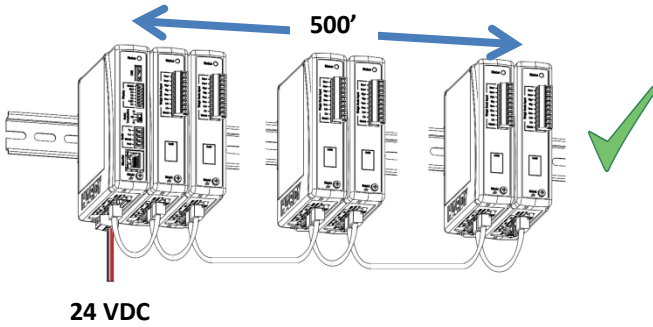
The Hardy HI6600 User Guide provides an overview of system limits using Cat5e for power distribution and where/when auxiliary power for individual Weight Processing Modules may be required. Systems consisting of a large number of channels running over large distances or that use non-Hardy load cells with varied input resistances, may all require auxiliary power.

When building systems that exceed the limits of the simplified table below or have a varied number of load cells per channel, please call Technical Support for assistance in calculating system limits.

4 (four) 350Ω load cells per WPM											
Distance from Gateway to last Weight Processing Module	50 (ft)	100 (ft)	150 (ft)	200 (ft)	250 (ft)	300 (ft)	350 (ft)	400 (ft)	450 (ft)	500 (ft)	> 500 (ft)
Max. Number of WPMs using Power over HardyNet (Cat5e)*	20	17	15	13	11	10	8	7	7	6	Call Factory

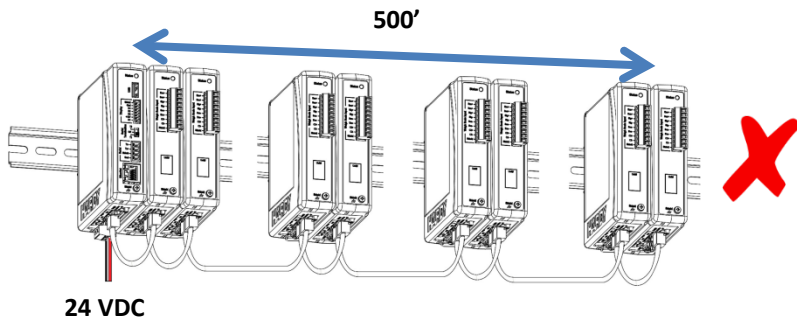
*Ambient Temperature

500 feet – 6 WPMs



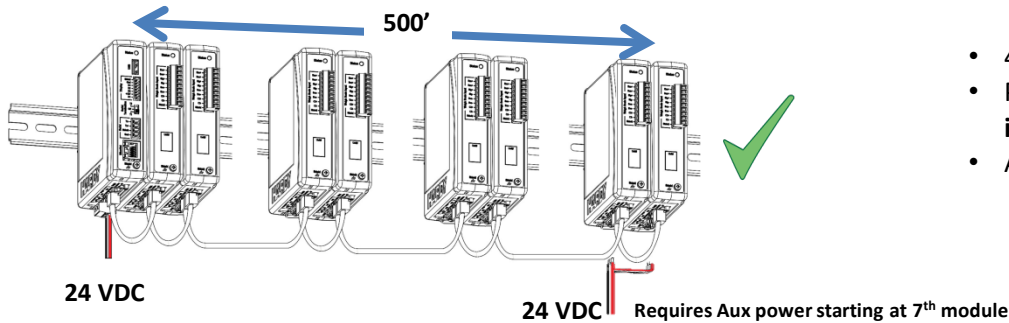
- 4 x 350Ω sensors/WPM
- Power over HardyNet **sufficient** at distance.
- No Aux. Power required.

500 feet – 8 WPMs



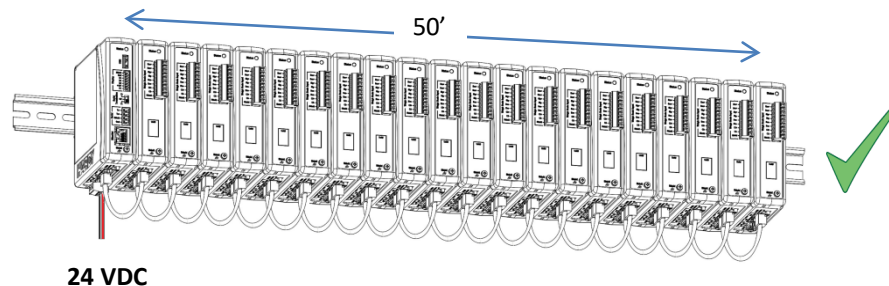
- 4 x 350Ω sensors/WPM
- Power over HardyNet **insufficient** at distance.
- Aux. Power required.

500 feet – 8 WPMs



- 4 x 350Ω sensors/WPM
- Power over HardyNet **insufficient** at distance.
- Aux. Power required.

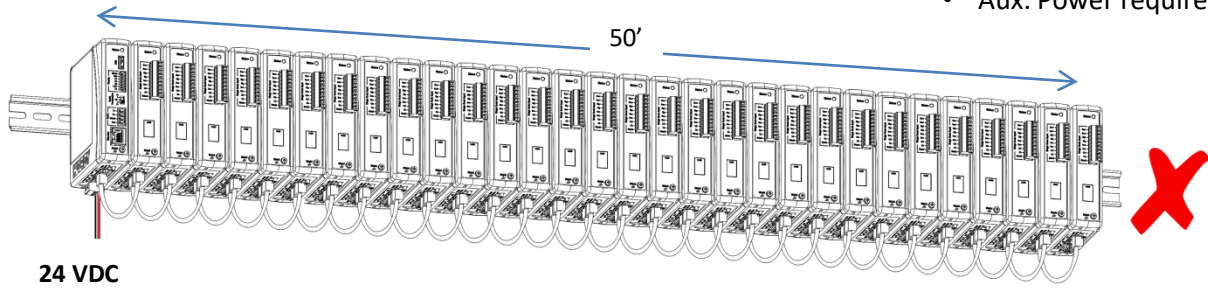
50 feet – 20 WPMs



- 4 x 350Ω sensors/WPM
- Power over HardyNet **sufficient** at distance.
- No Aux. Power required.

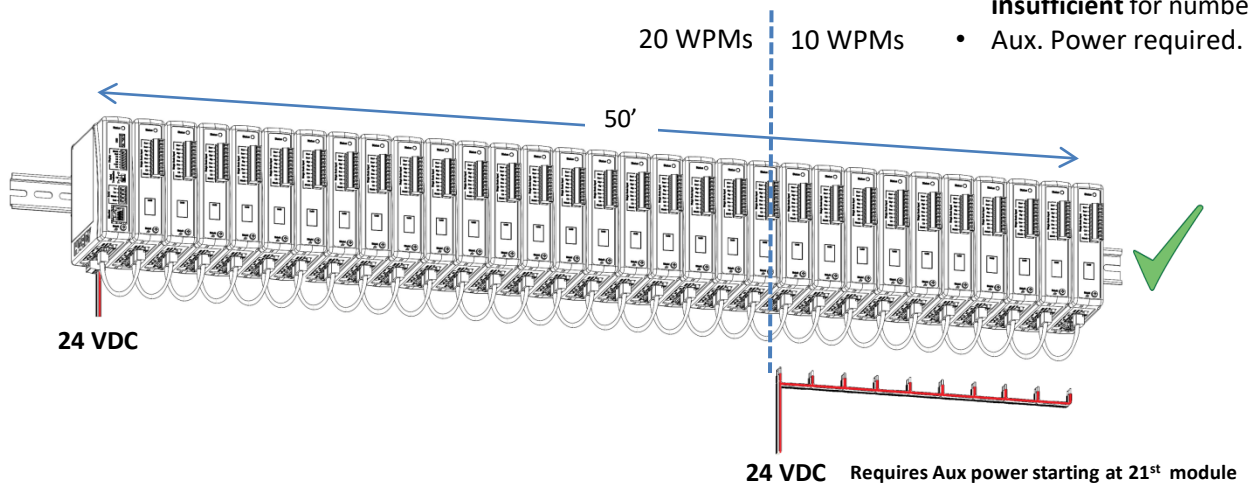
50 feet – 30 WPMs

- 4 x 350Ω sensors/WPM
- Power over HardyNet **insufficient** for number.
- Aux. Power required.



50 feet – 30 WPMs

- 4 x 350Ω sensors/WPM
- Power over HardyNet **insufficient** for number.
- Aux. Power required.



500 feet – 30 WPMs

- Power over HardyNet **insufficient** for number at distance.
- Aux. Power required.

