# P3 PowerPorts™ Capacity Information Note for Exterior range fixtures

The number of fixtures that can be driven from an output of a P3 PowerPort depends on the total chain length (= distance between P3 PowerPort and the end of the last fixture in the chain). This total chain length does include the length of the fixture's own captive cable tails (typically 2 x 0.25 meters).

Example: Table A shows that when the total chain length is less than 50 meters, up to 64 Exterior Dot-HP Pro fixtures can be connected. This means that such a maximized chain could consist of 64 fixtures (incl. 32 meters of cable tails) plus 18 meters of cables. Or 50 fixtures (incl. 25 meters of cable tails) plus 25 meters of cables. Or any other combination adding up to maximum 50 meters, with maximum 64 fixtures.

Please be aware that the quantities listed in below tables are specified per output port. So, for the P3 PowerPort 2000, the total capacity across all ports is four times the specified quantity.

## P3 PowerPort 2000 AC Input Voltage

The tables below assume the P3 PowerPort 2000 to be supplied with 208-240V AC input.

When the P3 PowerPort 2000 is supplied with 100-120V AC input, its output capacity is reduced. In such cases, the fixture quantities in the tables below need to be reduced to 2/3rd.

Example: Table B shows that when the total chain length is less than 50 meters, up to 423 Exterior Dot-4 Pro can be connected. When the P3 PowerPort 2000 is supplied with 100-120V AC input, this needs to be reduced to 282 Exterior Dot-4 Pro.

The P3 PowerPort 500 IP Install does not have a reduced output capacity at lower AC input voltages.

## Power Mode

The number of fixtures that can be driven from an output does also depend on the Power Mode selected on the fixture. Please respect the limits for the Power Mode in use, as outlined in the tables below.

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## DCE DataSplitterBooster IP

Please be aware that uninterrupted cable runs can be maximum 75 meters long. If the distance between P3 PowerPort and the first fixture on the chain exceeds 75 meters, a DCE DataSplitterBooster IP needs to be added to amplify the data signals. Also, when the distance between two daisy-chained fixtures does exceed 75 meters, a DCE DataSplitterBooster IP needs to be added to amplify the data signals.

## Exterior DC-Feeder

For fixtures driven via the Exterior DC-Feeder, the cables between the Exterior DC-Feeder and Exterior Dot-1/4/9 Pro do not need to be considered. The limitations outlined in below tables only refer to the cables between the P3 PowerPort / DCE PSU and the last Exterior DC-Feeder on the chain.

## Mixing Fixture Types

When different fixture types are mixed on a chain, you need to calculate to what percentage of the maximum load each fixture type accumulates. The total may not exceed 100%.

Example:
- Total length of chain is 50 meters (Table A).
- P3 PowerPort 2000.
- 32 Exterior Dot-HP Pro are present on the chain, which equals to 50% of max load (32 fixtures / 64 fixtures = 50%).
- 60 Exterior Dot-9 Pro are present on the chain, which equals to 48% of max load (60 fixtures / 124 fixtures = 48%).

So, this is an allowed configuration, as it sums up to 98% of maximum load.

## Alternative Chain Lengths

If the total chain length is not given in the tables below, respect the limit for the next highest total chain length.

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## Table A: Total Chain Length ≤ 50 meters, Full Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| Exterior Dot-1 Pro (via Exterior DC-Feeder) | 347 dots | 347 dots | 200 dots |
| Exterior Dot-4 Pro (via Exterior DC-Feeder) | 220 dots | 220 dots | 128 dots |
| Exterior Dot-9 Pro (via Exterior DC-Feeder) | 124 dots | 124 dots | 72 dots |
| Exterior Dot-HP Pro | 64 dots | 60 dots | 33 dots |

## Table B: Total Chain Length ≤ 50 meters, Half Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| Exterior Dot-1 Pro (via Exterior DC-Feeder) | 658 dots | 658 dots | 390 dots |
| Exterior Dot-4 Pro (via Exterior DC-Feeder) | 423 dots | 423 dots | 253 dots |
| Exterior Dot-9 Pro (via Exterior DC-Feeder) | 243 dots | 243 dots | 144 dots |
| Exterior Dot-HP Pro | 116 dots | 106 dots | 56 dots |

## Table C: Total Chain Length ≤ 100 meters, Full Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| Exterior Dot-1 Pro (via Exterior DC-Feeder) | 193 dots | 193 dots | 178 dots |
| Exterior Dot-4 Pro (via Exterior DC-Feeder) | 124 dots | 124 dots | 115 dots |
| Exterior Dot-9 Pro (via Exterior DC-Feeder) | 69 dots | 69 dots | 64 dots |
| Exterior Dot-HP Pro | 41 dots | 40 dots | 29 dots |

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## Table D: Total Chain Length ≤ 100 meters, Half Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| Exterior Dot-1 Pro (via Exterior DC-Feeder) | 355 dots | 355 dots | 338 dots |
| Exterior Dot-4 Pro (via Exterior DC-Feeder) | 240 dots | 240 dots | 215 dots |
| Exterior Dot-9 Pro (via Exterior DC-Feeder) | 136 dots | 136 dots | 122 dots |
| Exterior Dot-HP Pro | 80 dots | 75 dots | 48 dots |

## Table E: Total Chain Length ≤ 150 meters, Full Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| Exterior Dot-1 Pro (via Exterior DC-Feeder) | 128 dots | 128 dots | 145 dots |
| Exterior Dot-4 Pro (via Exterior DC-Feeder) | 83 dots | 83 dots | 93 dots |
| Exterior Dot-9 Pro (via Exterior DC-Feeder) | 47 dots | 47 dots | 54 dots |
| Exterior Dot-HP Pro | 27 dots | 27 dots | 25 dots |

## Table F: Total Chain Length ≤ 150 meters, Half Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| Exterior Dot-1 Pro (via Exterior DC-Feeder) | 220 dots | 220 dots | 280 dots |
| Exterior Dot-4 Pro (via Exterior DC-Feeder) | 153 dots | 153 dots | 175 dots |
| Exterior Dot-9 Pro (via Exterior DC-Feeder) | 90 dots | 90 dots | 99 dots |
| Exterior Dot-HP Pro | 50 dots | 49 dots | 44 dots |

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## Table G: Total Chain Length ≤ 200 meters, Full Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| **Exterior Dot-1 Pro** (via Exterior DC-Feeder) | 94 dots | 94 dots | 100 dots |
| **Exterior Dot-4 Pro** (via Exterior DC-Feeder) | 61 dots | 61 dots | 68 dots |
| **Exterior Dot-9 Pro** (via Exterior DC-Feeder) | 34 dots | 34 dots | 40 dots |
| **Exterior Dot-HP Pro** | 20 dots | 20 dots | 20 dots |

## Table H: Total Chain Length ≤ 200 meters, Half Power Mode

| Product | P3 PowerPort 2000 | P3 PowerPort 500 IP Install | DCE PSU 240 IP |
|---|---|---|---|
| **Exterior Dot-1 Pro** (via Exterior DC-Feeder) | 144 dots | 144 dots | 200 dots |
| **Exterior Dot-4 Pro** (via Exterior DC-Feeder) | 105 dots | 105 dots | 128 dots |
| **Exterior Dot-9 Pro** (via Exterior DC-Feeder) | 65 dots | 65 dots | 72 dots |
| **Exterior Dot-HP Pro** | 38 dots | 36 dots | 38 dots |

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