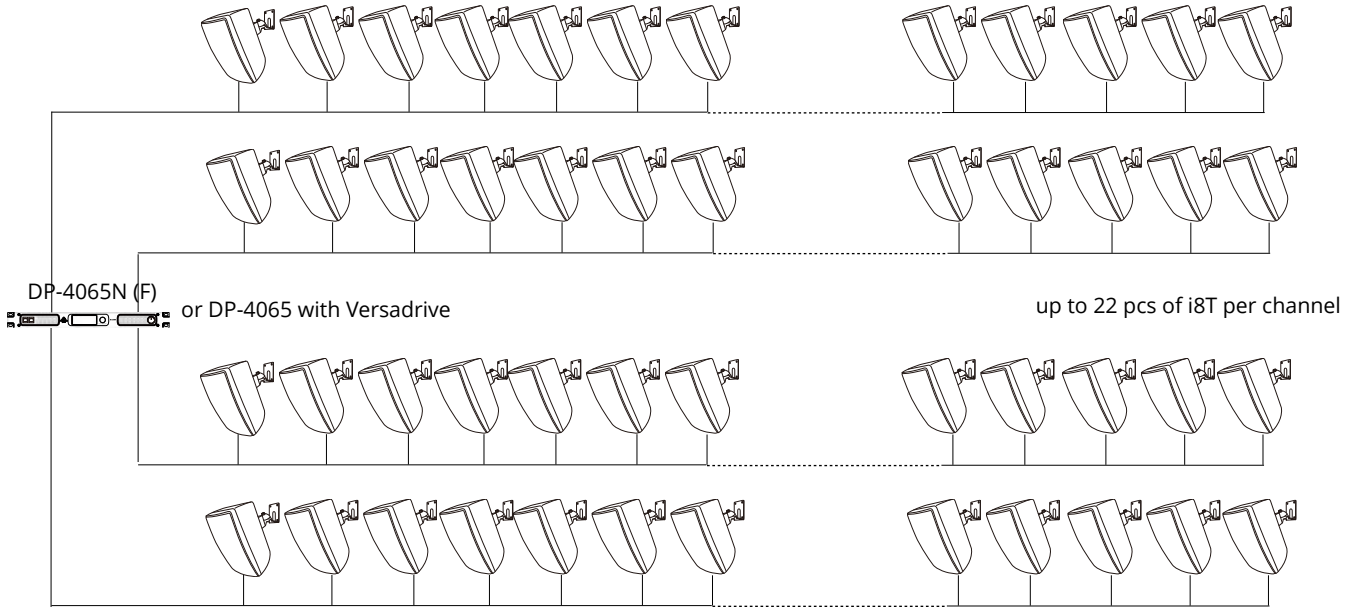
HIGH IMPEDANCE SYSTEMS

In this high impedance system example, the DP-4065N (F) can drive up to 88 pcs of i8T loudspeakers.
This configuration can also drive LESS than 88 pcs of i8T. Any number between 4 or 88 !

Important : Before connecting the load to the amplifier, first measure the line impedance with an impedance bridge (a simple low-cost unit is adequate). If the load impedance is too low, the power amplifier will be loaded down and may overheat or distort. It's a myth that you can connect an unlimited number of speakers to a 100 V or 70 V line. If the load impedance measures it's lower than the amplifier minimum operative impedance, re-tap all the speakers at the next-lower power tap. This raises the load impedance. Measure again.



DP-N (F) Control software can be downloaded from
https://www.wharfedalepro.com/download/dp-f-_-dp-n-control-software/

When switched to 70 V mode, DP-N (F) models have Peak Limiter and RMS Limiters set automatically. Only the HPF needs setting in the EQ section.

DP-4065 (N) (F) with i8T

i8T is fitted with two terminals for amplifier feed and two terminals for connection to the next speaker if used.

Speakers are wired in parallel as shown below. Wattage taps to each speaker are made by the rotary selector. Ensure that the total wattage required by all speakers does not exceed the available wattage of the amplifier.

Wiring pin-out
Amplifier NL4 (speakON compatible) 1+ to positive. 1- to negative

Required Amplifier settings - 70 V
DP-4065 with SC Versadrive DSP Settings
SET GAIN 35 dB

HPF = Loudspeaker Minimum Low frequency @-3 dB
E.g. i8T 70 Hz @-3 dB = 70 Hz BW 18 dB/Oct (recommended)

RMS Compressor
Threshold +4 dB Attack 250 ms Release 2000 ms Ratio 1:20

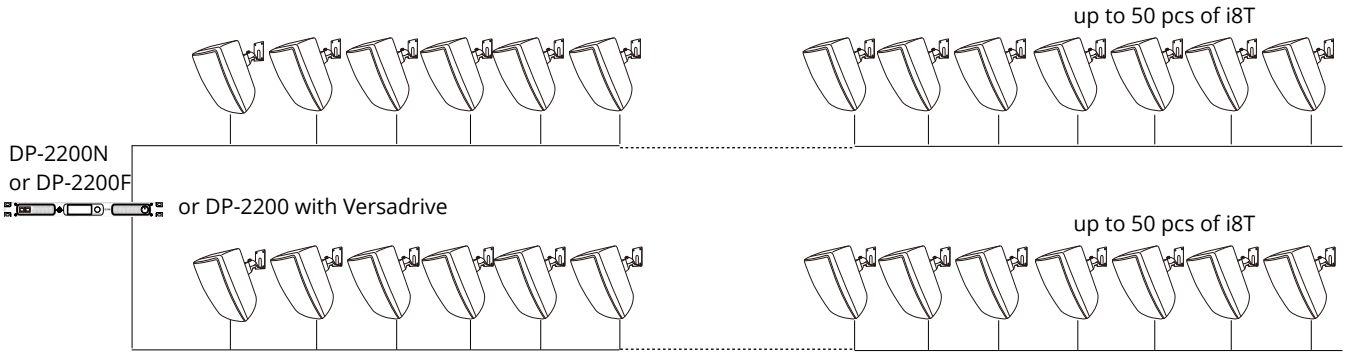
(Peak) Limiter
Threshold +7 dB Attack 16 ms Release 128 ms

The Maths
DP-4065 plus SC preset or DP-4065N(F) in 70 V mode can drive up to a total of 4 x 1100 W (70 V RMS @ 4 ohm) / 50 W (i8T TAP Power) =
up to MAX 88 i8T - 50 W - 70 V mode

HIGH IMPEDANCE SYSTEMS

In this high impedance system example, the DP-2200 (DP-2200F / DP-2200N) can drive up to 100 pcs of i8T loudspeakers. This configuration can also drive LESS than 100 pcs of i8T. Any number between 2 or 100 !

Important : Before connecting the load to the amplifier, first measure the line impedance with an impedance bridge (a simple low-cost unit is adequate). If the load impedance is too low, the power amplifier will be loaded down and may overheat or distort. It's a myth that you can connect an unlimited number of speakers to a 100 V or 70 V line. If the load impedance measures it's lower than the amplifier minimum operative impedance, re-tap all the speakers at the next-lower power tap. This raises the load impedance. Measure again.



DP-N (F) Control software can be downloaded from
https://www.wharfedalepro.com/download/dp-f-_-dp-n-control-software/

When switched to 100 V mode, DP-N (F) models have Peak Limiter and RMS Limiters set automatically. Only the HPF needs setting in the EQ section.

DP-2200 (N) (F) with i8T

i8T is fitted with two terminals for amplifier feed and two terminals for connection to the next speaker if used.

Speakers are wired in parallel as shown below. Wattage taps to each speaker are made by the rotary selector. Ensure that the total wattage required by all speakers does not exceed the available wattage of the amplifier.

Wiring pin-out
Amplifier NL4 (speakON compatible) 1+ to positive. 1- to negative

Required Amplifier settings - 100 V
DP-2200 with SC Versadrive DSP Settings
SET GAIN 35 dB

HPF = Loudspeaker Minimum Low frequency @-3 dB
E.g. i8T 70 Hz @-3 dB = 70 Hz BW 18 dB/Oct (recommended)

RMS Compressor
Threshold +7 dB Attack 250 ms Release 2000 ms Ratio 1:20

(Peak) Limiter
Threshold +10 dB Attack 16 ms Release 128 ms

The Maths
DP-2200 plus SC preset or DP-2200N(F) in 100 V mode can drive up to a total of 2 x 2500 W (100 V RMS @ 4 ohm) / 50 W (i8T TAP Power) = up to MAX 100 i8T - 50 W - 100 V mode.