VDA-Rack Tour Rack

- **Signal/Network/Power distribution**
- **Usable worldwide (70-270 V, 50/60 Hz)**
- **Three VDA18 for maximum flexibility and power**
- **Rugged 9U frame**
- **Electric compatibility with C15-Rack**
- **AES / EBU / and RJ45 network Control**

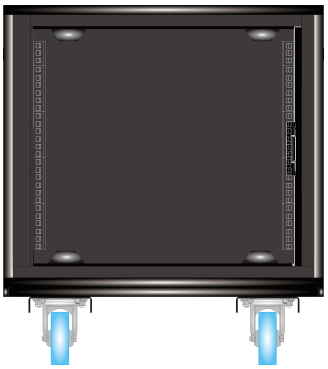
- The VDA-Rack is built upon the VDA18 amplified controller and offers an advanced drive rack solution for all QANON-AUDIO systems. It features signal and power distribution in a comprehensive plug-and-play touring package.
- Usable worldwide, the VDA-Rack facilitates the tour logistics and cross-rental between QANON-AUDIO rental network agents.VDA-Rack is also both mechanically and electrically compatible with the C15-Rack legacy standard.

- The VDA-Rack working principle is entirely modular and the user can physically assemble and interconnect multiple units. It is based on a multiple of three VDA18 to yield the maximum flexibility and power resources for any QANON-AUDIO system.

The VDA-Rack comprises:

- 1 9U rack with front and rear doors
- 3 VDA18 amplified controllers
- 1 I/O V-Panel for signal and Network distribution
- 1 I/O V-PowerII distribution panel

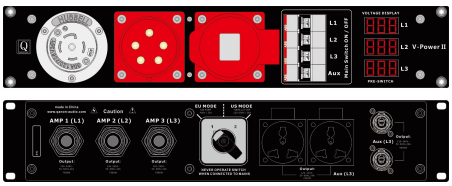
VDA-Rack System Components



9U-Rack :The 9U Rack is a dual structure consisting of rubber shock absorbers, and the internal steel frame is supported by an external aluminum frame. This ensures that both front and rear doors are retractable to provide maximum protection and transport of electronic equipment within the rack.

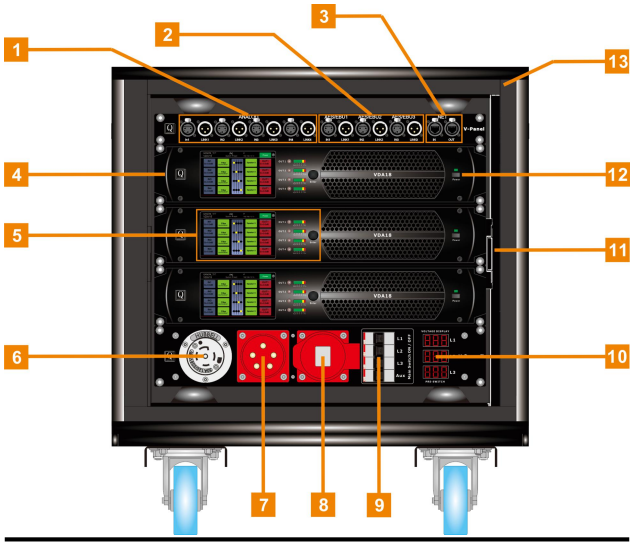
V-Panel : 1U distribution of front panel includes four power amplification controllers for analog audio signal and digital audio signal. Four channel analog signal link out and three channel stereo AES / EBU link out link other rack signals. The front panel analog connector 4-channel XLR input and output is compatible with the rear 4-channel output, and the panel also has a 2-ethercon I / O connector connected to the network to allow reception.

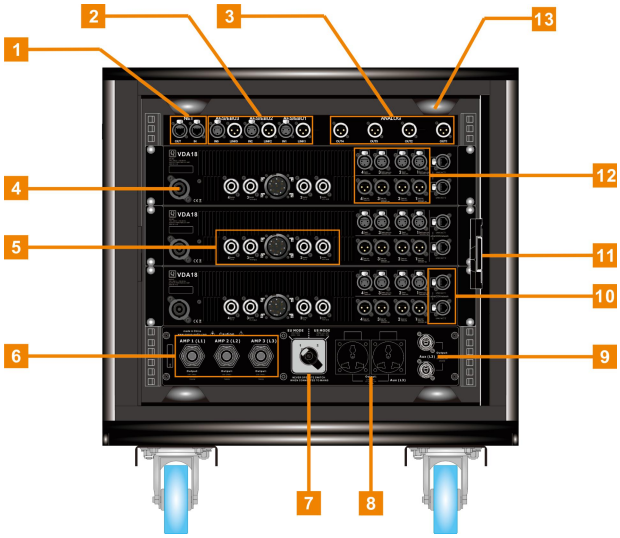
VDA18 : 32-bit floating-point digital signal processor with a sampling rate of 96kHz. SMPS is a general-purpose switching power supply voltage from 90V ~ 270V (± 10%) SMPS with maximum power amplifier power factor correction (PFC), 4 × 4 matrix architecture, 5 "TFT touch screen provides:
8Ω：4 x 1800W RMS，4Ω：4 x 3600W RMS，2.7Ω：4 x 4000W RMS，2Ω：4 x 4000W RMS
By integrating the network based on VDA controller Ethernet, due to its 1 Gbit / s high-speed data transmission protocol, VDA controller software can control and monitor up to 254 units in real time. Multiple network topologies can be configured quickly and easily to achieve the full flexibility of the required system architecture.



V-PowerII : 2U / 19 "I / O power supply, compatible with VDA-Rack / C15 -Rack power supply, automatically balance the number of VDA18 per phase. It has three-phase NEMA l21-30p input (US mode) and 400V power supply (EU mode) with 32A socket.
Either US mode or EU mode, the power switch is allowed to operate. Two universal sockets and PowerCon 20A sockets can also be used for auxiliary power supply. Each switch is matched with a circuit breaker, and three LED displays help to monitor the presence of each phase in the front end of the power circuit.

VDA-Rack User Interface

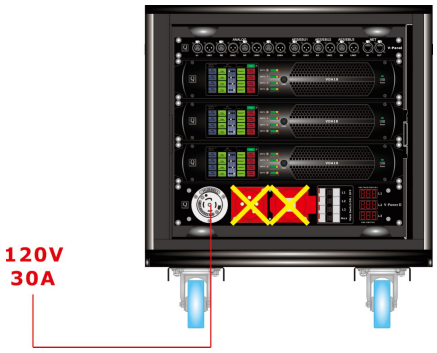




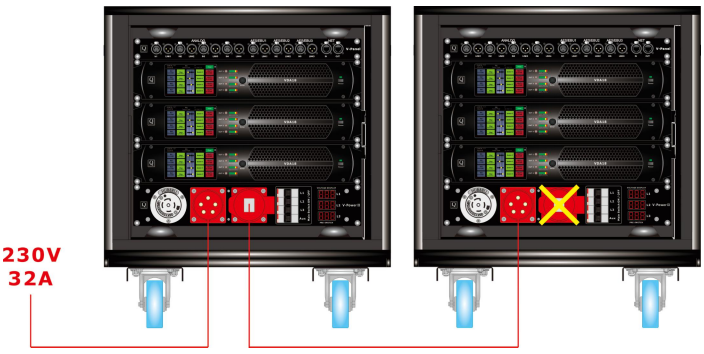
Front	Rear
1、Analog input/Link（8 XLR connectors）	1、2 x RJ45 Ethercon（IN/OUT）
2、Digital input/Link（6 XLR connectors）	2、Digital input/Link （6 XLR connectors）
3、2 x RJ45 Ethercon（IN/OUT）	3、Analog Output （4 XLR connectors）
4、VDA18 Amplifier controller	4、VDA18 32A AC input
5、5” TFT Touch-screen （mute,signal）	5、1xPA-COM 4xNL4 Output
6、3P+N+E Input（L21-30P，US Mode）	6、L1,L2,L3 VDA18 AC Output
7、3P+N+E Input（400V，EU Mode）	7、EU/US Mode power switch
8、3P+N+E Link（400V，EU Mode）	8、Auxiliary 10A（L3）
9、Main switch（L1,L2,L3,Aux）	9、Auxiliary 20A（L3）
10、Voltage display（L1,L2,L3,Aux）	10、2 x RJ45 Ethercon（IN/OUT）
11、Front and rear door storage tank	11、Front and rear door storage tank
12、VDA18 Power ON/OFF	12、Signal Input/Link
13、9U-Rack	13、Shockproof support

VDA-Rack CABLING SCHEMES

US mode

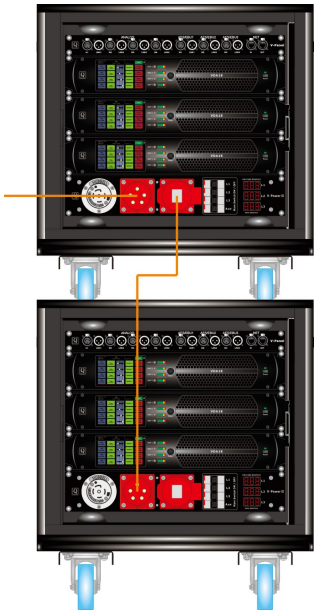


EU mode

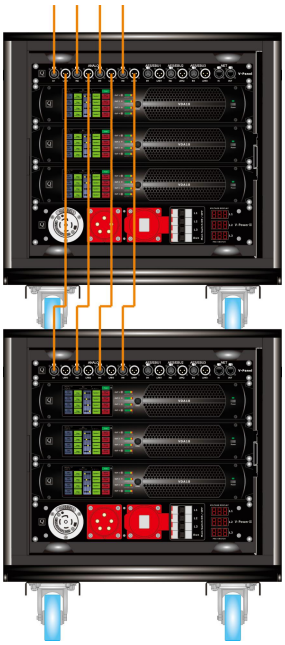


Front

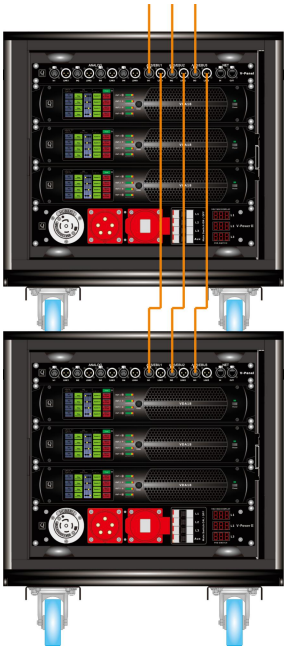
AC Power input/Link



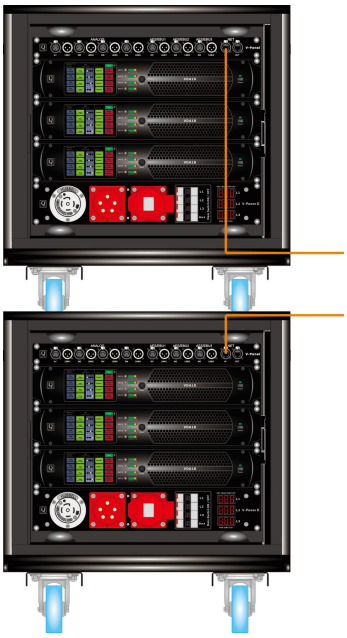
Analog input/Link



Digital input/Link

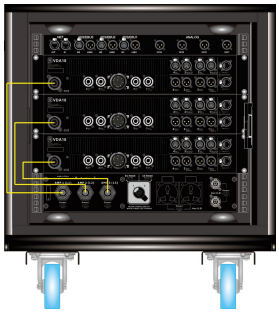


Network IN/OUT

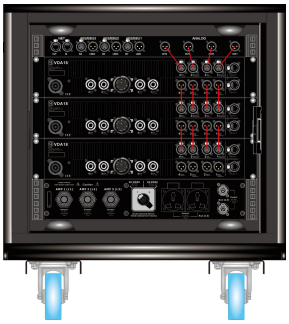


Rear

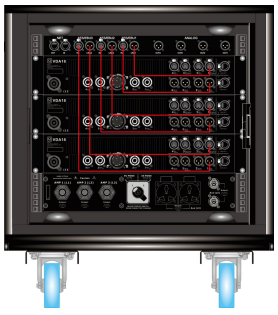
AC Power input



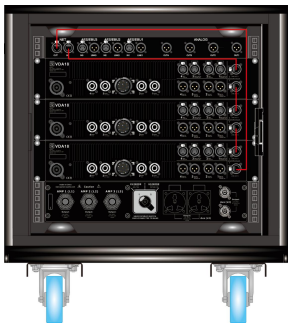
Analog input/Link



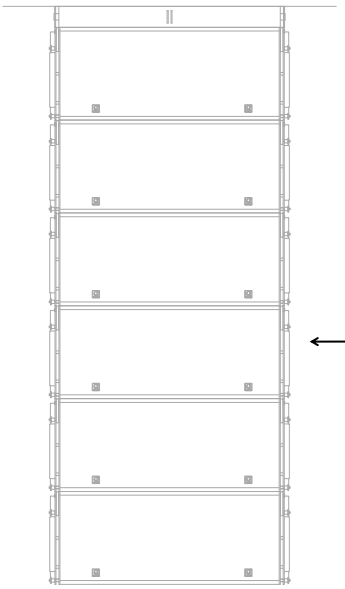
Digital input/Link



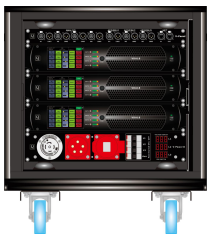
Network IN/OUT

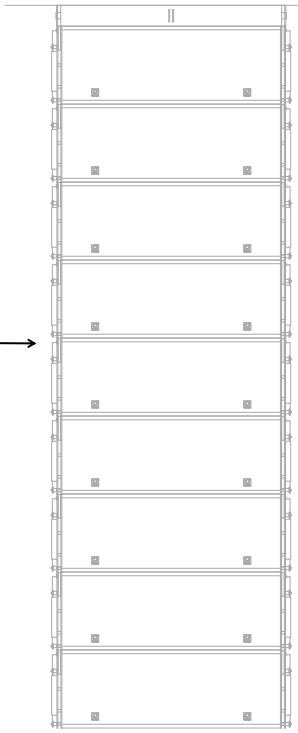


VDA-Rack ENCLOSURES (SINGLE)

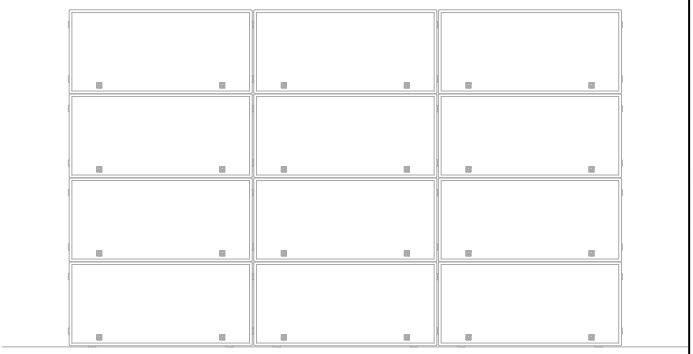


6 V15

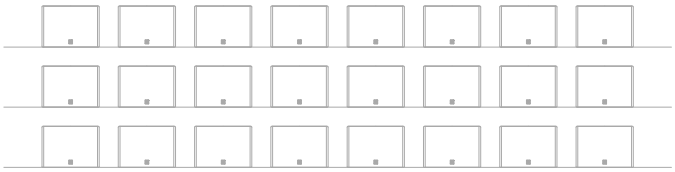




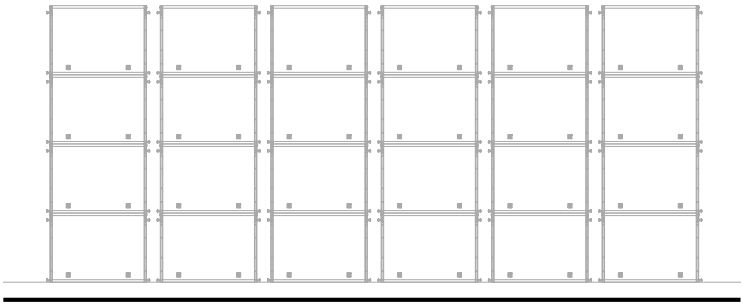
9 V12



12 VS28



24 M15



24 V18

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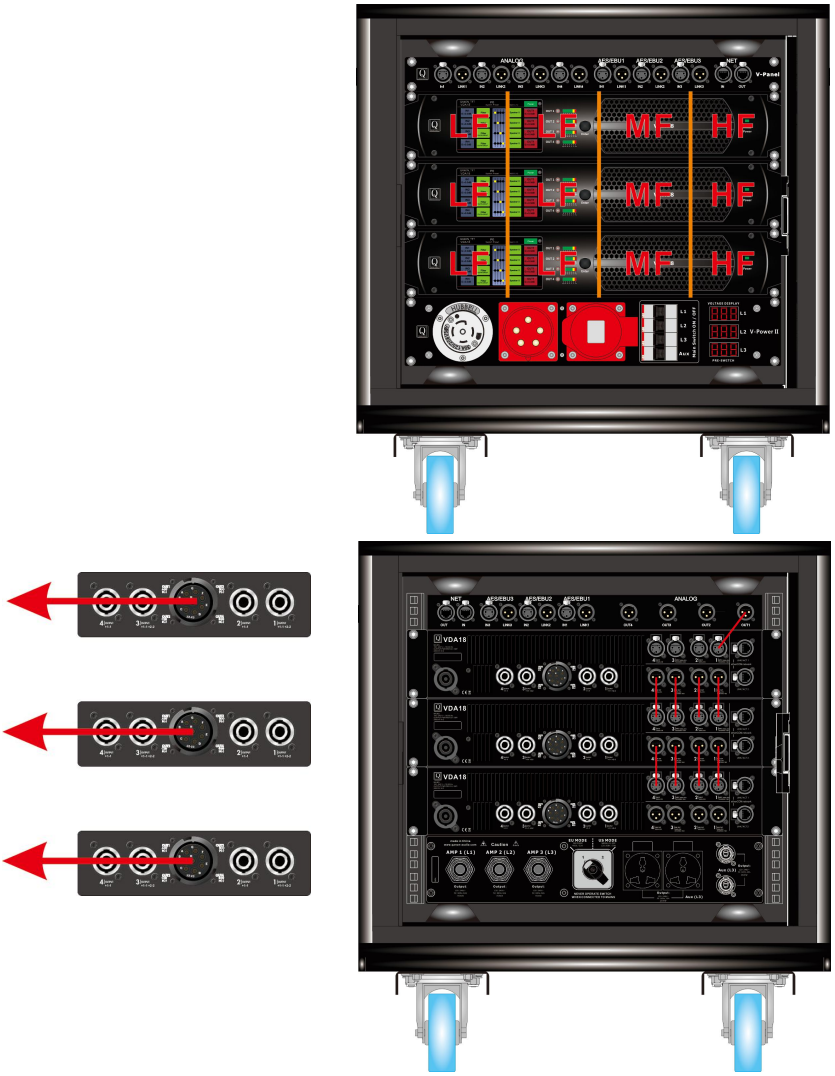
VDA-Rack Output Wiring Modes

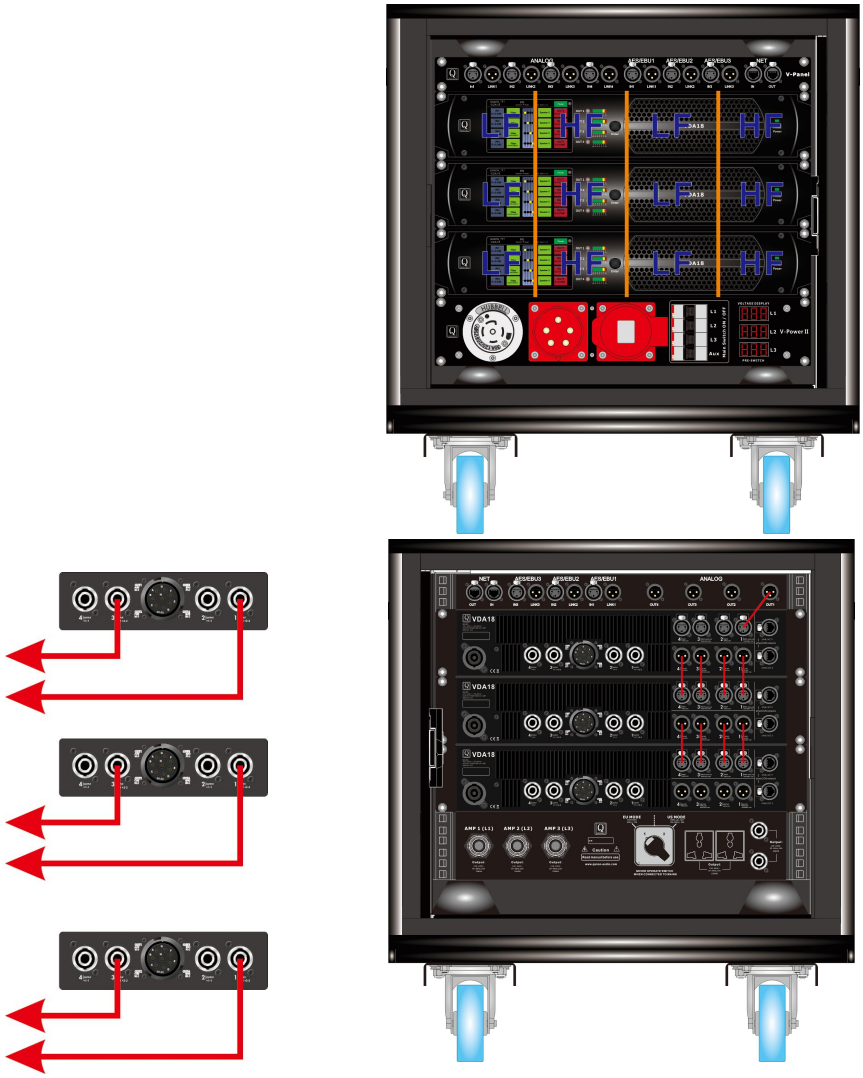
3way mode



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
V15	1	2	None	2
V12	1	2	3	3

VDA-Rack Output Wiring Modes

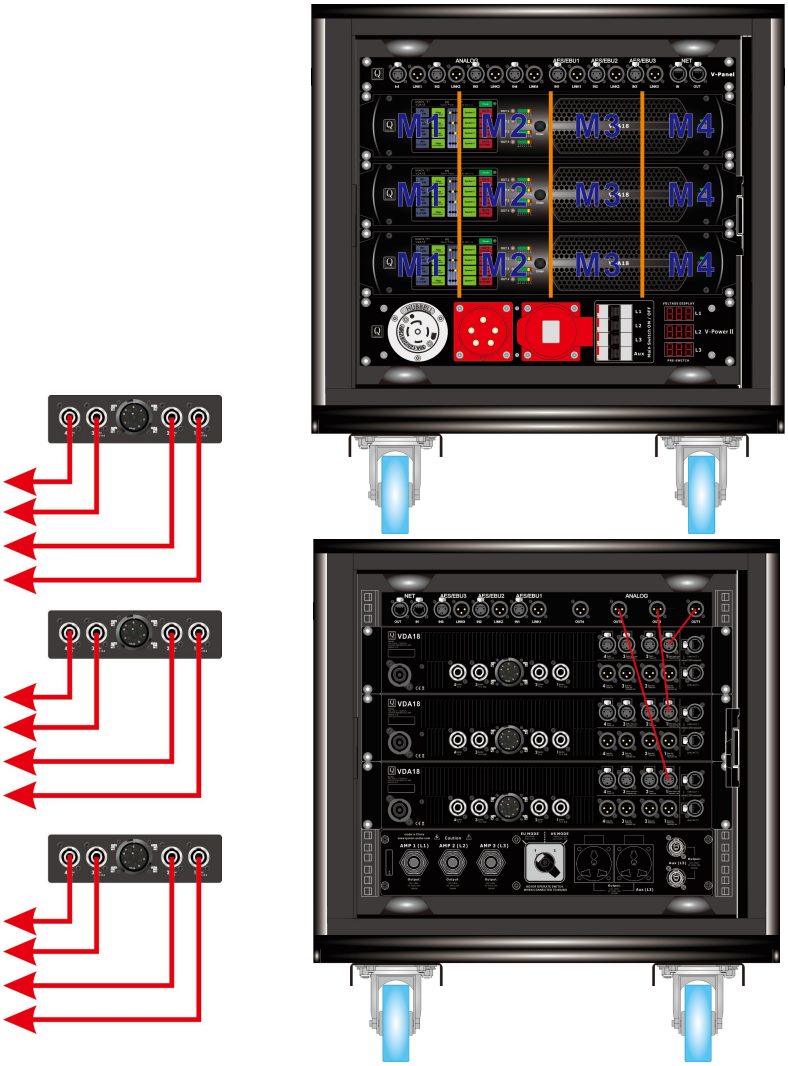
2way mode



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
Veya	1	2	3	6
V10	1	2	3	6-8
V8	1	2	3	6-8
X12	2	4	6	6-8
X10	2	4	6	6-8
X8	2	4	6	6-8
T15F	1	2	3	6
T15W	1	2	3	6

VDA-Rack Output Wiring Modes

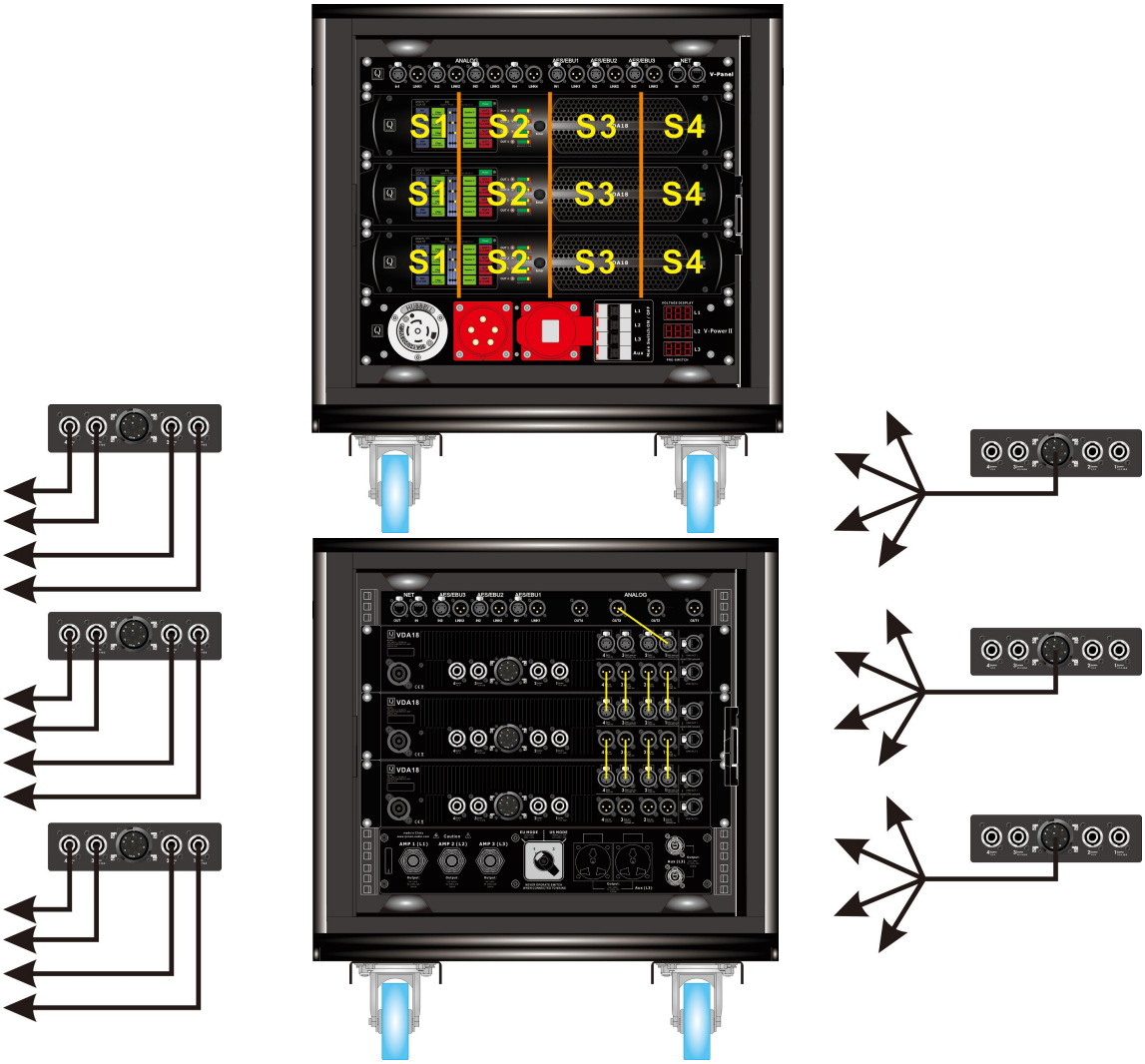
1way mode



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
M15 / M12 / M10	1	2	3	12
PS15 / PS12 / PS10	1	2	3	12
TC15 / TC12 / TC10	1	2	3	12
QR15 / QR12 / QR10	1	2	3	12
Angel	1	2	3	12
Avi	1	2	3	12

VDA-Rack Output Wiring Modes

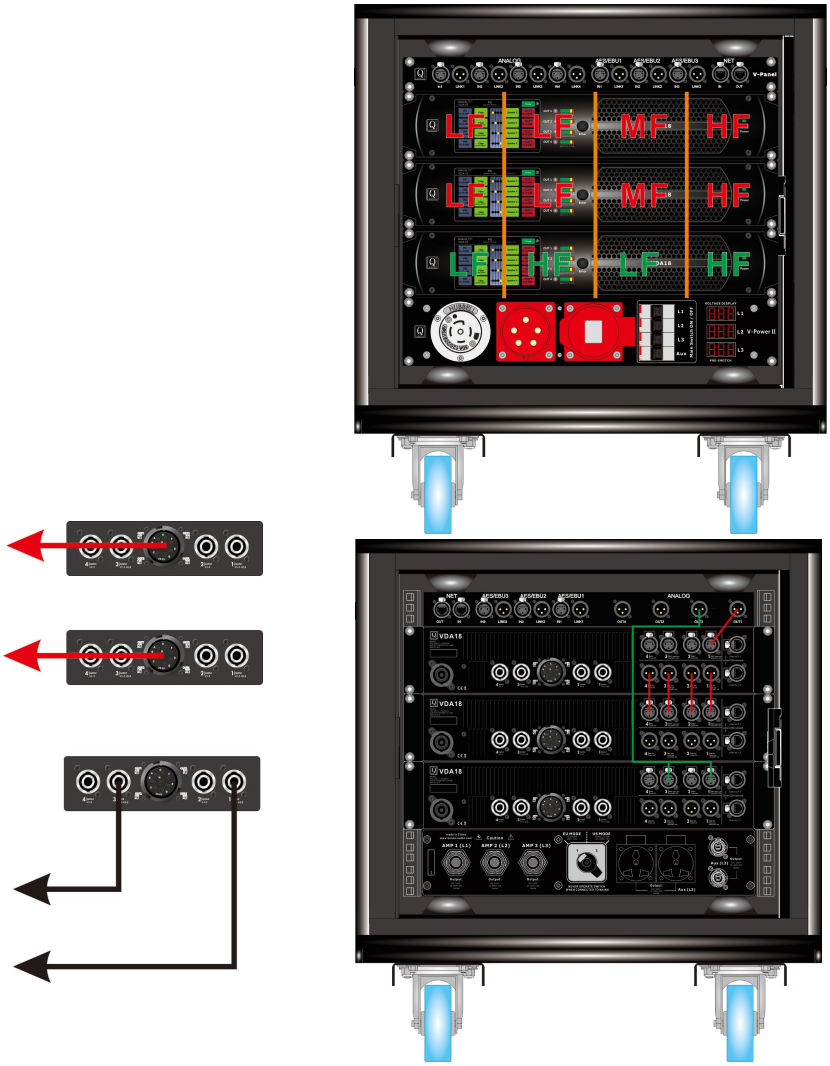
Sub mode



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
Vela-L 8Ω	1	2	/	8
Xiv15 8Ω	1	2	/	8
Xiv18 8Ω	1	2	/	8
X8Sub	1	2	/	8
X10Sub	1	2	/	8
T21 8Ω	1	2	/	8
V18 8Ω	1	2	/	8
V25 4Ω	1	1	/	4
VS28i 4Ω	1	1	/	4
VS28 4Ω	1	1	/	4
VS221 4Ω	1	1	/	4
Xiv28 4Ω	1	1	/	4

VDA-Rack Output Wiring Modes

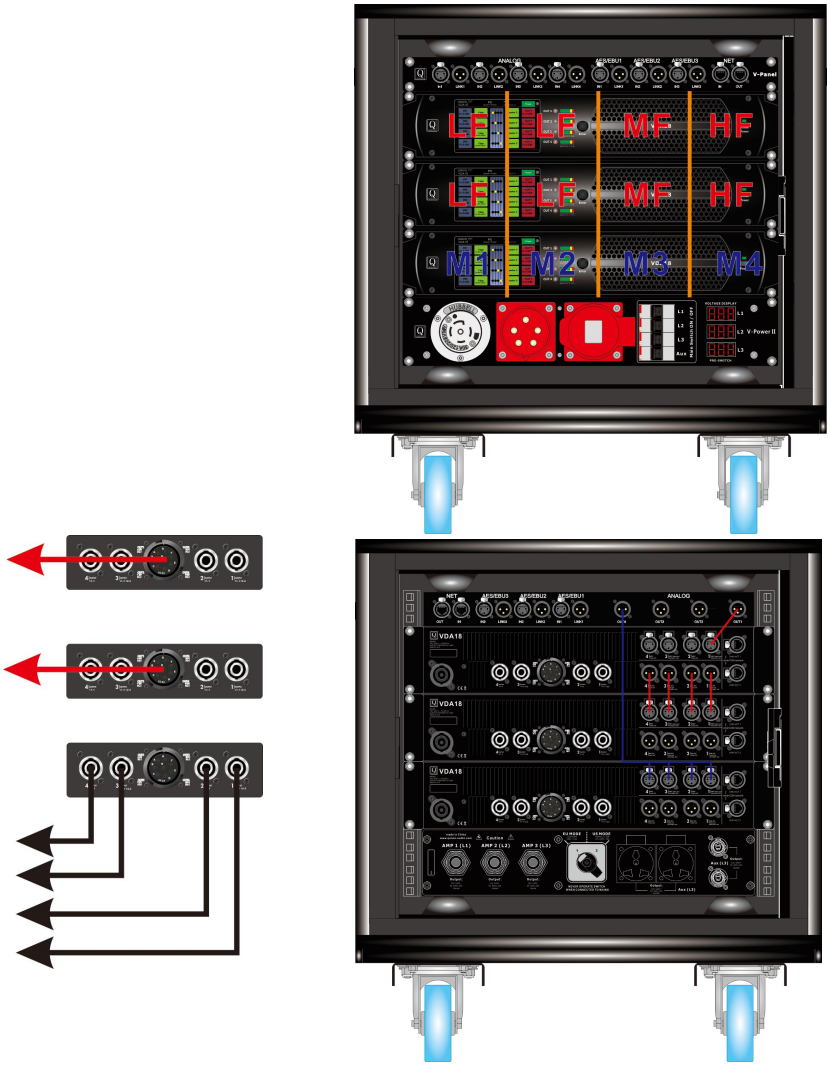
3way + 2way



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
V15	1	2	/	2
V12	1	2	3	3
Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
Veya	1	2	3	6
V10	1	2	3	6-8
V8	1	2	3	6-8
X12	2	4	6	6-8
X10	2	4	6	6-8
X8	2	4	6	6-8
T15	1	4	6	6

VDA-Rack Output Wiring Modes

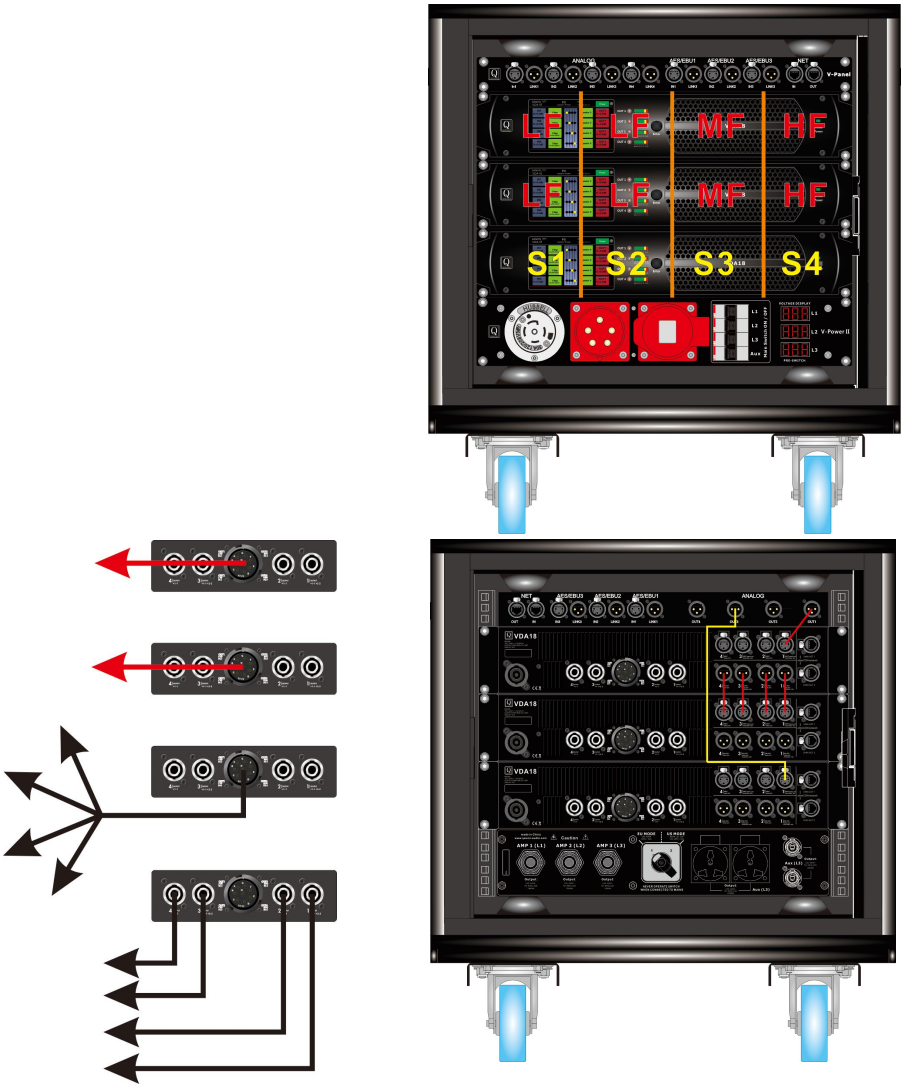
3way + 1way



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
V15	1	2	/	2
V12	1	2	3	3
Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
M15 / M12 / M10	1	2	3	12
PS15 / PS12 / PS10	1	2	3	12
TC15 / TC12 / TC10	1	2	3	12
QR15 / QR12 / QR10	1	2	3	12

VDA-Rack Output Wiring Modes

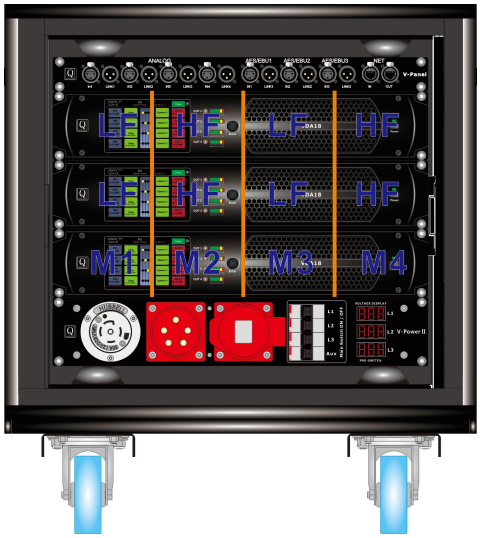
3way + Sub

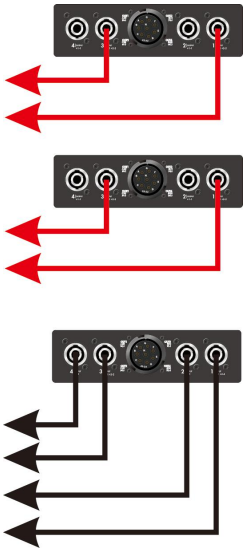


Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
V15	1	2	/	2
V12	1	2	3	3
Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
V18	1	2	/	8
V25	/	1	/	4
VS28i	/	1	/	4
VS28	/	1	/	4
VS221	/	1	/	4

VDA-Rack Output Wiring Modes

2way + 1way

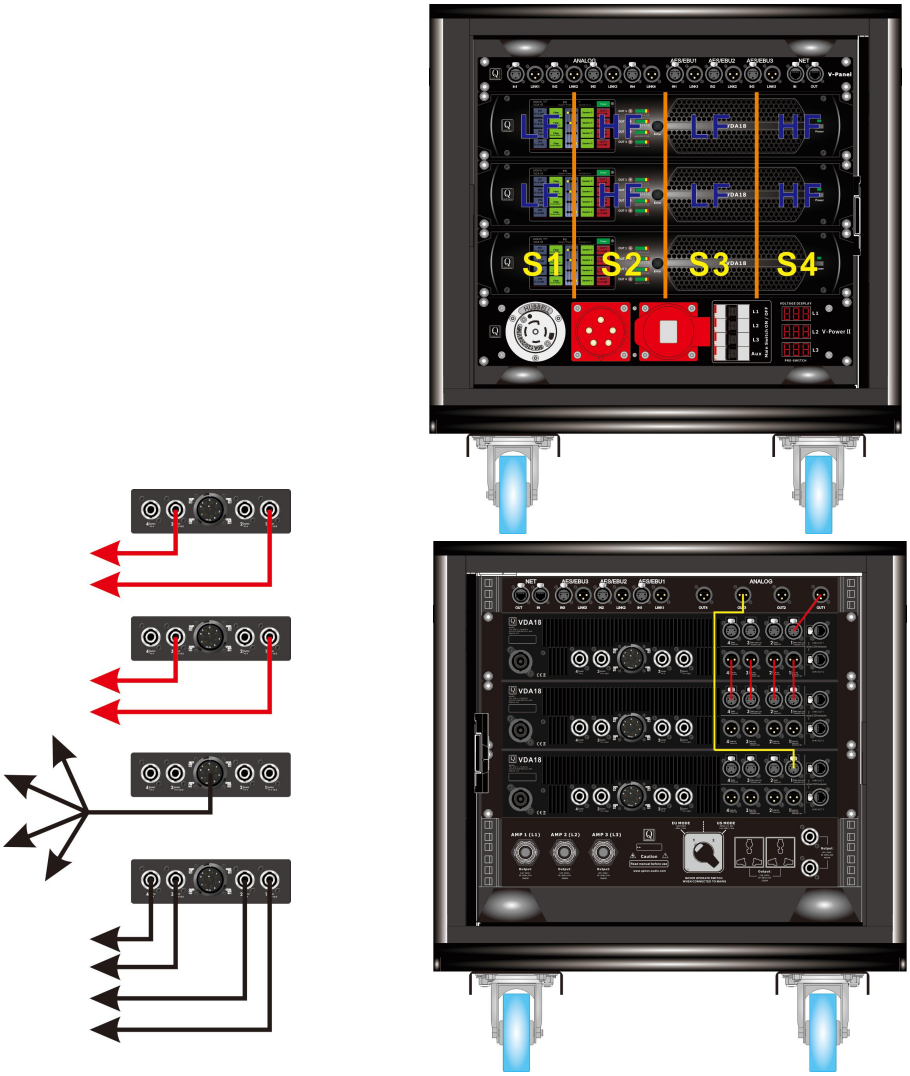




Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
Veya	1	2	3	6
V10	1	2	3	6-8
V8	1	2	3	6-8
X12 / X10 / X8	2	4	6	6-8
Model	**HP 8Ω**	**Normal 4Ω**	**Economic 2.7Ω**	**Max**
M15 / M12 / M10	1	2	3	12
PS15 / PS12 / PS10	1	2	3	12
TC15 / TC12 / TC10	1	2	3	12
QR15/ QR12 / QR10	1	2	3	12

VDA-Rack Output Wiring Modes

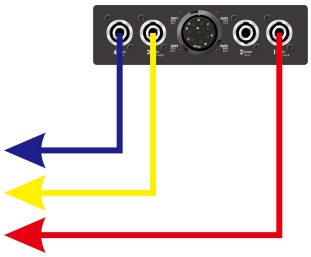
2way + Sub



Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
Veya	1	2	3	6
V10	1	2	3	6-8
V8	1	2	3	6-8
X12 / X10 / X8	2	4	6	6
Model	**HP 8Ω**	**Normal 4Ω**	**Economic 2.7Ω**	**Max**
V18	1	2	/	8
V25	/	1	/	4
VS28i	/	1	/	4
VS28	/	1	/	4
VS221	/	1	/	4

VDA-Rack Output Wiring Modes

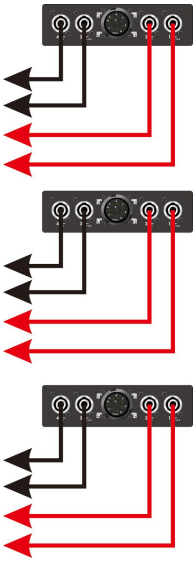
2way + Sub + Mon

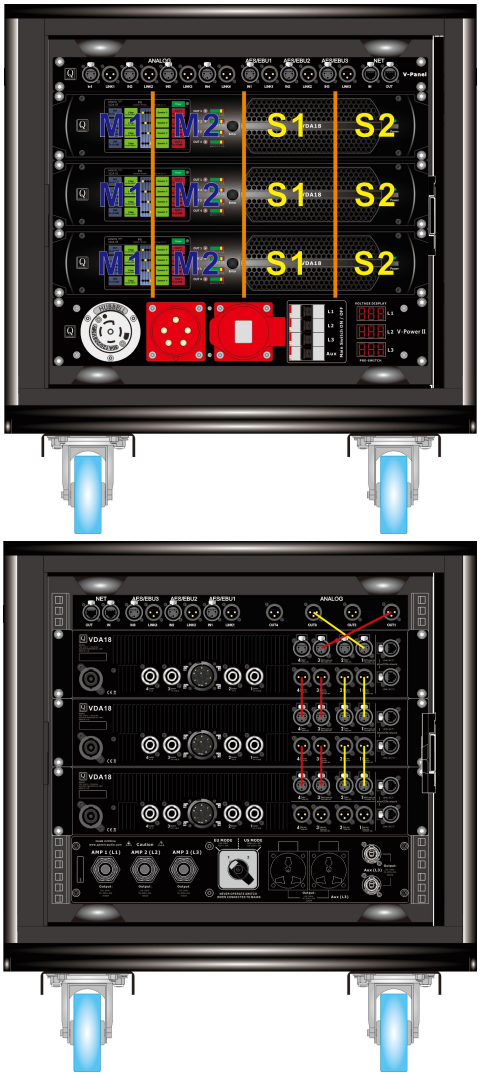


Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
Veya	1	2	3	6
V10	1	2	3	6-8
V8	1	2	3	6-8
X12 / X10 / X8	2	4	6	6-8
Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
V18	1	2	/	8
VS28i	/	1	/	4
VS28	/	1	/	4
VS221	/	1	/	4

VDA-Rack Output Wiring Modes

1way + Sub





Model	HP 8Ω	Normal 4Ω	Economic 2.7Ω	Max
M15 / M12 / M10	1	2	3	12
PS15 / PS12 / PS10	1	2	3	12
TC15 / TC12 / TC10	1	2	3	12
QR15 / QR12 / QR10	1	2	3	12
Model	**HP 8Ω**	**Normal 4Ω**	**Economic 2.7Ω**	**Max**
V18	1	2	/	8
VS28i	/	1	/	4
VS28	/	1	/	4
VS221	/	1	/	4