Pikip
SOLAR
SPEAKERS

QUALITÉ ACOUSTIQUE.
INDÉPENDANCE ÉNERGÉTIQUE.

SOLUTION **PIKIP STAGE**

DATASHEET

OPTIMAL USE

Gigs
DJing
Touring
Main Stage
Multicast

OUTDOOR & INDOOR

UP TO 2000 PEOPLE

M SETUP :
2 X VDS115 + 2 X MT1

218 w

For 102 dBA equivalent*

< 150 W	A +
150 à 300 W	A
301 à 500 W	B
501 à 1000 W	C
1001 à 1500 W	D
>1500 W	E

VERSATILE SOUND SYSTEM
Modular system for various sizes and programs

BATTERY-POWERED GENERATOR
Total autonomy for any equipment

AMPLIFIER & DSP
Patented power optimization technology

SIMPLIFIED SETUP
DC/AC generator and amplifiers in a single rack

HYBRID CHARGE
Rechargeable through solar or grid power

Pikip
STAGE

ACOUSTIC FEATURES

• Modular and autonomous, suitable for audiences from 100 to 2000 people
• Low end cardioid configuration available
• Artist monitors included
• High-efficiency hybrid acoustic load
• Extended homogeneous coverage area
• 15mm reinforced birch plywood
• Semi-matte textured coating and marine varnish finish

Refer to the technical datasheets associated with each acoustic module for details.
General data for M set up :

FREQUENCY RESPONSE	45-20000 Hz (+/-3 dB)
CONTINUOUS POWER HANDLING	2 x 1540W (nominal program power capacity + 3dB)
ACOUSTIC EFFICIENCY	218 W (for 102dBA equivalent*)
MAX SPL	138 dB SPL (@1m, pink noise 6dB crest factor)
NOMINAL COVERAGE ANGLE	60° x 40° (H° X V°/ -6 dB)
TRANSDUCERS	VTL118 : 18'' neodymium driver VDS115 : 15'' neodymium driver MT1 : 2'' compression driver + 2 x bullet 1,25'' VCX : coaxial 12''+ 3'' driver

INTEGRATED AMPLIFIER & DSP FEATURES

• Patented DUAL ARCHITECTURE POWER SUPPLY technology by PikiP
• Class D amplifier with integrated DSP
• 2 XLR analog input
• SPEAKON 4 pin and 2 pin - minimum impedance 4ohm each
• Protection over-under voltage
• Protection Peak and RMS limiters customizable
• 8 presets selectable on the front panel and PC interface
• Fully configurable

OUTPUT POWER (EIAJ 1kHz, 1% THD)	4 to 16 channels 700W RMS @8 ohms (EIAJ 1 kHz, 1% THD)
GAIN	30 dB
FREQUENCY RESPONSE (+/-3dB)	23 Hz - 33 kHz @1 W, 8 ohms (+/-3 dB)
SIGNAL-TO-NOISE RATIO	>106 dB
MAX INPUT LEVEL	15,7 dBu
INPUT IMPEDANCE	10k ohms
OUTPUT IMPEDANCE	50 m ohms (<1k Hz)
MAX VOLTAGE	105 V
THD+N	<0,08 from 0,1 W to half power
OPERATING TEMPERATURE	-10°C to 50°C / Active fan

ENERGY SYSTEM FEATURES

• Designed for touring: all electronics in single rack
• Converter, regulator, and VICTRON monitoring made in Europe / TÜV certified / ISO 9001
• TNS neutral system
• AC outputs for technical equipment (mixing desk, turntables, effects...)
• Next-generation LiFePO4 batteries with secure BMS
• **ESS (Energy Storage System) function >** automatically switch connections to the electrical grid (injection or withdrawal) based on battery charge status or power demands.

• **UPS (Uninterruptible Power Supply) function >** instantly switch to battery in case of power outage.
• **Power Assist function >** Create 32A from a 16A! Avoid overloading a limited mains source by supplementing power from the batteries.
• 3 SCHUKO sockets equipped with 30mA RCD
• State-of-charge gauge for real-time control of power consumption and autonomy
• Supervision via Web Portal (4G) / LCD Screen / Smartphone (Bluetooth) / Audible Alarm

OUTPUT AC POWER	1200 W - 2400 Wc per AEA
STORAGE	3500 Wh LiFePO4 per AEA
AUTONOMY (NO SUN)	20 h - full amplifier power 8 h - full amplifier power + artists power supply

RECHARGING FEATURES

• 800 Wp Photovoltaic Power Supply on weighted aluminum structure / made in Europe / TÜV certified / ISO900 certificate
• POWERTWIST 20 A inputs for photovoltaic recharge
• POWERCON 16 A inputs for mains recharge
• 2x15 m of 3G4 cable (2P+PE) with MC4 connector and M6 terminal for equipotential bonding
• Long Life Batteries Algorithm (Bulk - Absorption - Floating)

SOLAR CHARGING (10 TO 100%)*	6h
MAIN CHARGING (10 À 100%)	6h

* With one solar platform during clear summer weather in metropolitan France

STRUCTURAL FEATURES

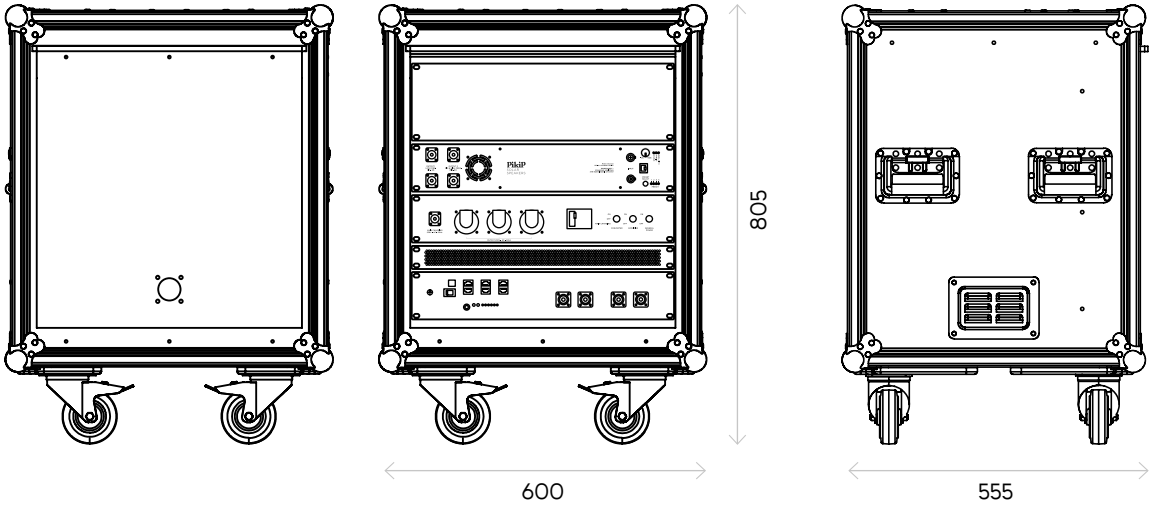
ACOUSTIC MODULES
• Stacking of cabinets with safety notches
• Double steel poles

SOLAR
• Aluminum tray with galvanized steel rails and wing nuts for solar structures

DIMENSIONS (LXPXH)mm	See the configuration diagrams below
WEIGHT	Refer to the technical data sheets associated with each module

AEA
• 19'' rack mounted on shock-absorbing silent blocks
• Standard size 10U
• 4 wheels 100 mm, 2 with brakes
• Double handles / reinforced corners / ventilation grille / lockable sliding cover

DIMENSIONS (LXPXH)mm	600 x 555 x 805
WEIGHT	67 kg

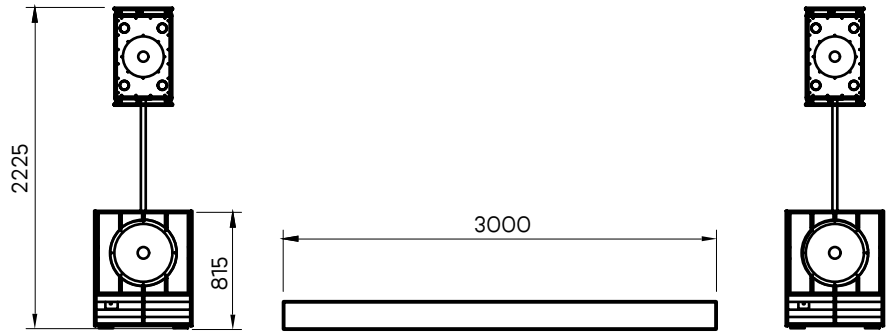


AEA - ACOUSTIC + ENERGY + AUTONOMY

S SETUP
900 m2 / audience 300

279 w
For 102 dBA equivalent*

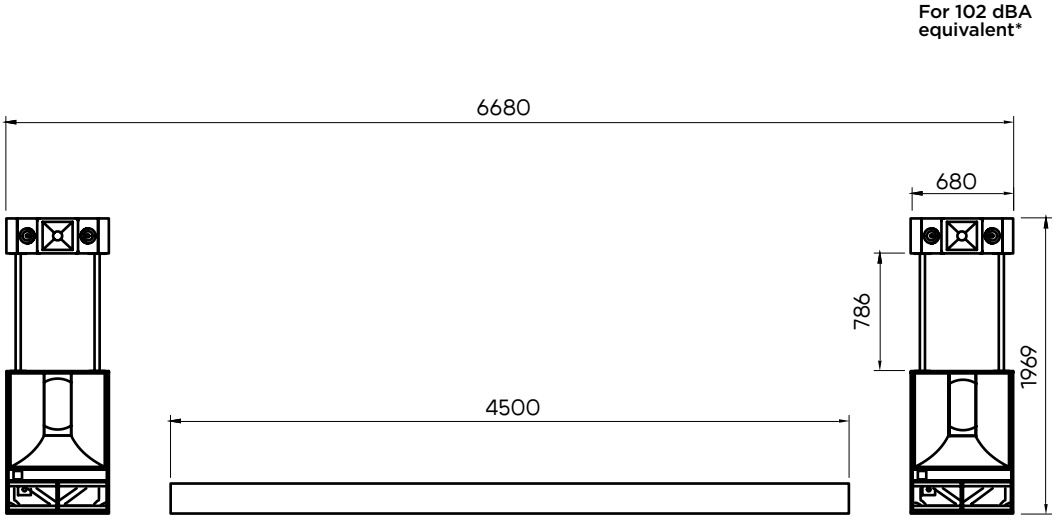
< 150 W	A +
150 à 300 W	A
301 à 500 W	B
501 à 1000 W	C
1001 à 1500 W	D
>1500 W	E



M SETUP
500 m2 / audience 800

218 w
For 102 dBA equivalent*

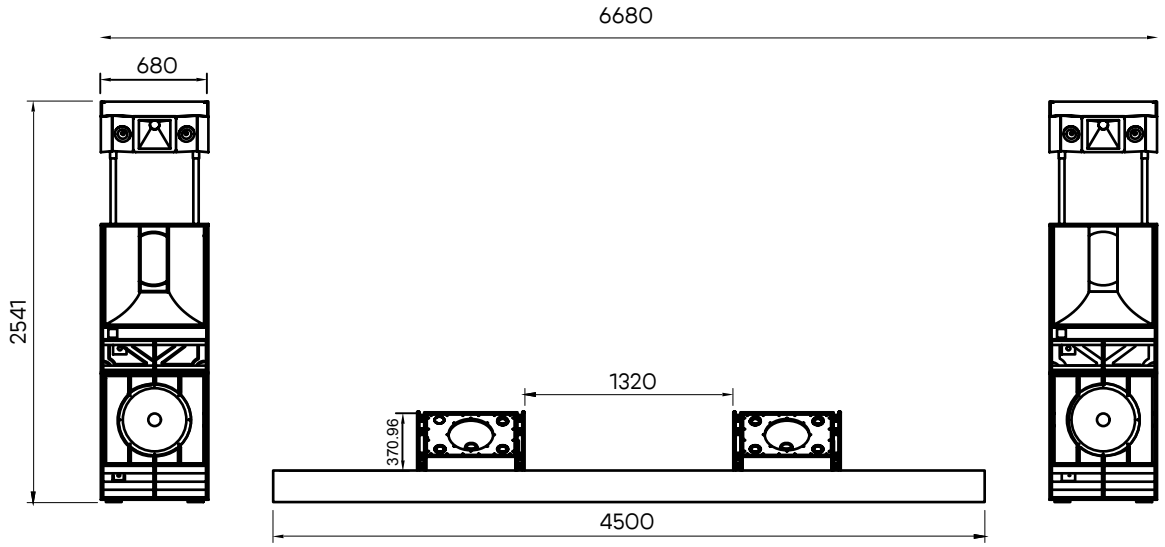
< 150 W	A +
150 à 300 W	A
301 à 500 W	B
501 à 1000 W	C
1001 à 1500 W	D
>1500 W	E



L SETUP
1300 m2 / audience 1000

165 w
For 102 dBA equivalent*

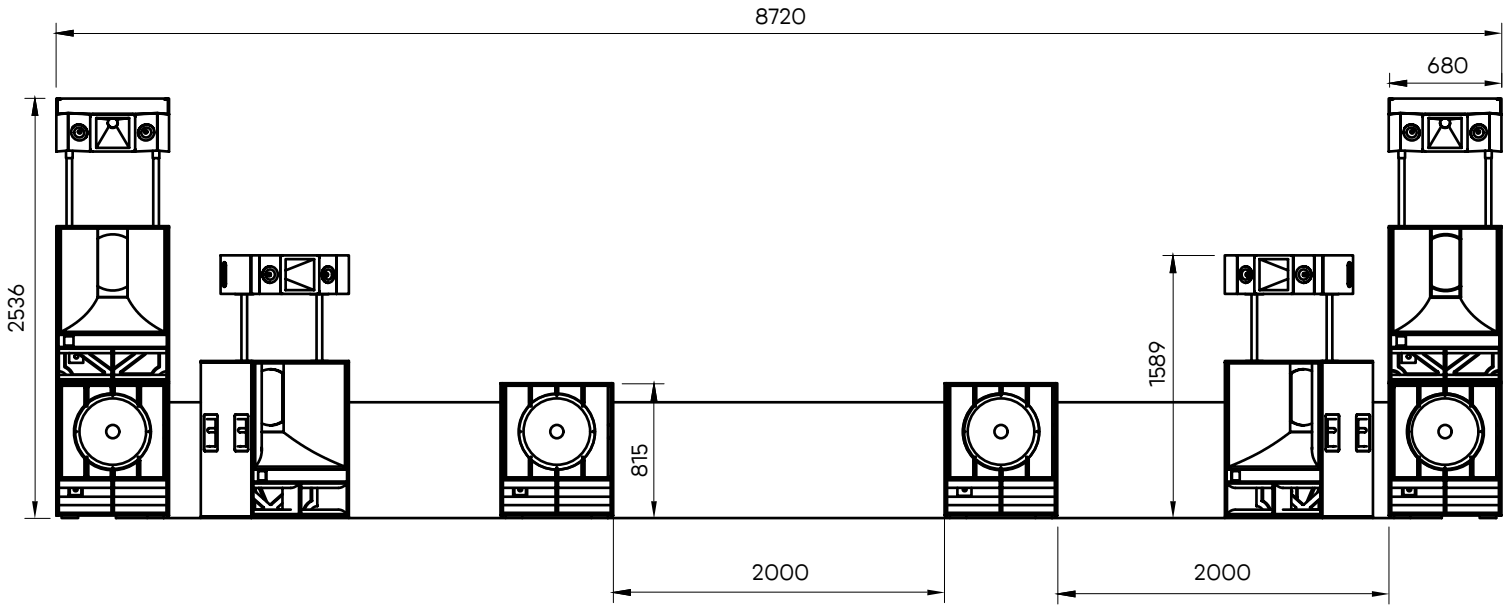
< 150 W A +
150 à 300 W A
301 à 500 W B
501 à 1000 W C
1001 à 1500 W D
>1500 W E

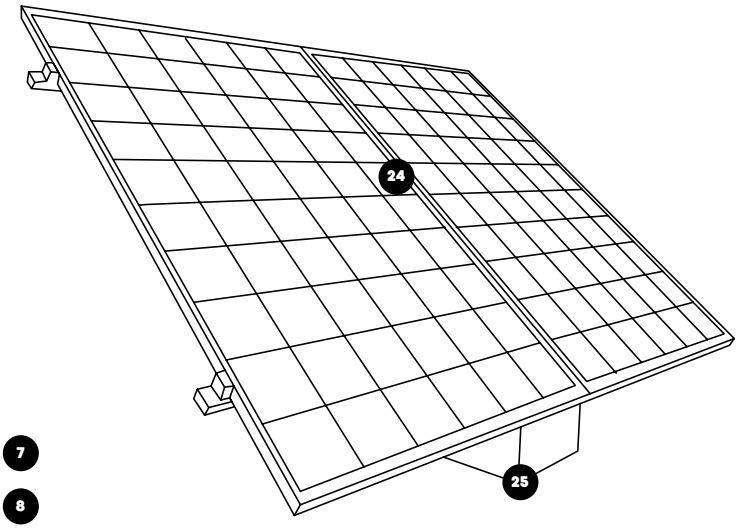


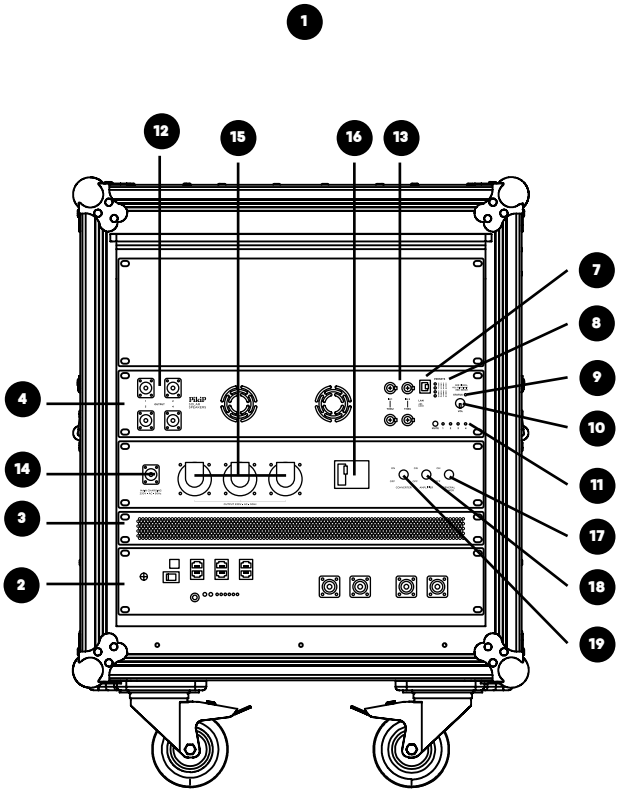
XL SETUP
2000 m2 / audience 1500

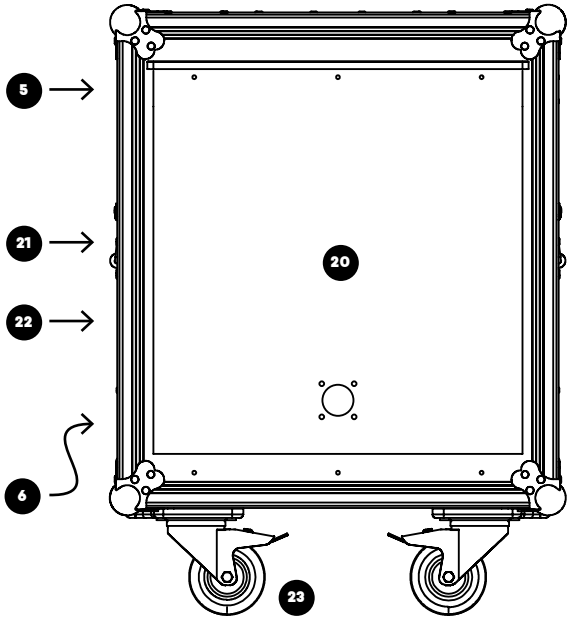
165 w
For 102 dBA equivalent*

< 150 W A +
150 à 300 W A
301 à 500 W B
501 à 1000 W C
1001 à 1500 W D
>1500 W E









1. AEA module
2. Batteries
3. Energy
4. 4-channel amplifiers
5. Free or additional 4-ch. amplifiers
6. Photovoltaic connectors x2
7. Ethernet port (DSP control)
8. Preset selection indicators
9. RJ45 socket (DSP control)
10. Master volume
11. Mute
12. SPEAKON 4-POINT OUT x2
13. SPEAKON 2-POINT OUT x2
14. POWERCON INPUT (mains recharge)
15. AC OUT SCHUKO (Type E) socket x3
16. 30mA differential protection
17. General & Safety switch
18. Amplifier switch
19. Inverter and Charger switch
20. Lockable sliding door
21. Handles
22. Ventilation grille
23. Braked wheels
24. Photovoltaic panel x2
25. Weighted structure

→ Side

↷ Rear

*The figure given represents the electrical power dissipated by the speaker to generate over its bandwidth a sound level equivalent to 102 dBA with a pink noise input. For calculation purposes, the speaker is considered being part of an equalized sysytem with absolutely flat response from 20 Hz to 20 kHz.

The calculation method is linear and does not take into account high power non-linear phenomena. Calculation details are available in the paper Quantifying Loudspeakers' Power Consumption, published in the AES journal (July/August 2022, Vol 70 no 7/8).