Pikip
SOLAR
SPEAKERS

QUALITÉ ACOUSTIQUE.
INDÉPENDANCE ÉNERGÉTIQUE.

SOLUTION **PIKIP VELOMA**

DATASHEET

OPTIMAL USE

Moving Gigs
Pop Up
Public speaking
Move on site
Parade

OUTDOOR

UP TO 300 PEOPLE

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

MOBILITY
Bike-towed energy self-sufficient speaker

POWER GENERATOR
Enjoy solar generated power riding or on site

INTEGRATED SOLAR PANELS
Continuous charge - retractable

MOTORIZED TRAILER
Inertia braking and controller - up to 300 kg

TOTAL WIDTH INFERIOR TO 1 M
Cycle path compatible

Pikip
VELOMA

ACOUSTIC FEATURES

• Full range, stand alone enclosure
• Hybrid acoustic loading: LF horn + vented enclosure, HF fully horn loaded
• reinforced 15mm birch plywood
• Wide homogeneous covering area
• Textured polyurethan finish

FREQUENCY RESPONSE	45-20000 Hz (+/-3 dB)
CONTINUOUS POWER HANDLING	1540 W (nominal program power capacity + 3 dB)
ACOUSTIC EFFICIENCY	218 W (for 102dBA equivalent*)
MAX SPL	135 dB SPL (@1m, pink noise 6dB crest factor)
NOMINAL COVERAGE ANGLE	90° x 40° (H° X V°/ -6 dB)
TRANSDUCERS	VDS115 : 15'' neodymium driver MT1 : 2'' compression driver + 2 x bullet 1,25''

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

• Event Design: all electronics consolidated in a fly case
• Converter, regulator, and VICTRON monitoring made in Europe / TÜV certified / ISO 9001
• AC outputs to power technical equipment (mixing console, turntables, effects...)
• 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

AVAILABLE AC	1200 W - 2400 Wc by AEA
STORAGE	3500Wh LiFePO4 by AEA
AUTONOMY (NO SUN)	20h - full amplifier power 8h - 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
• 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

STRUCTURE

TRAILER
• Stainless steel welded trailer 304 or 316
• 3 weels 20'' steel axle 15mm / spoke 13g / rim Kargo mach 1 (french made)
• Electric motor 1200W - 48V
• Ball joint universal saddle tie / aluminium mudguard
• Hand V-Brake / Stainless steel brakes
• Non-slip wooden plateform

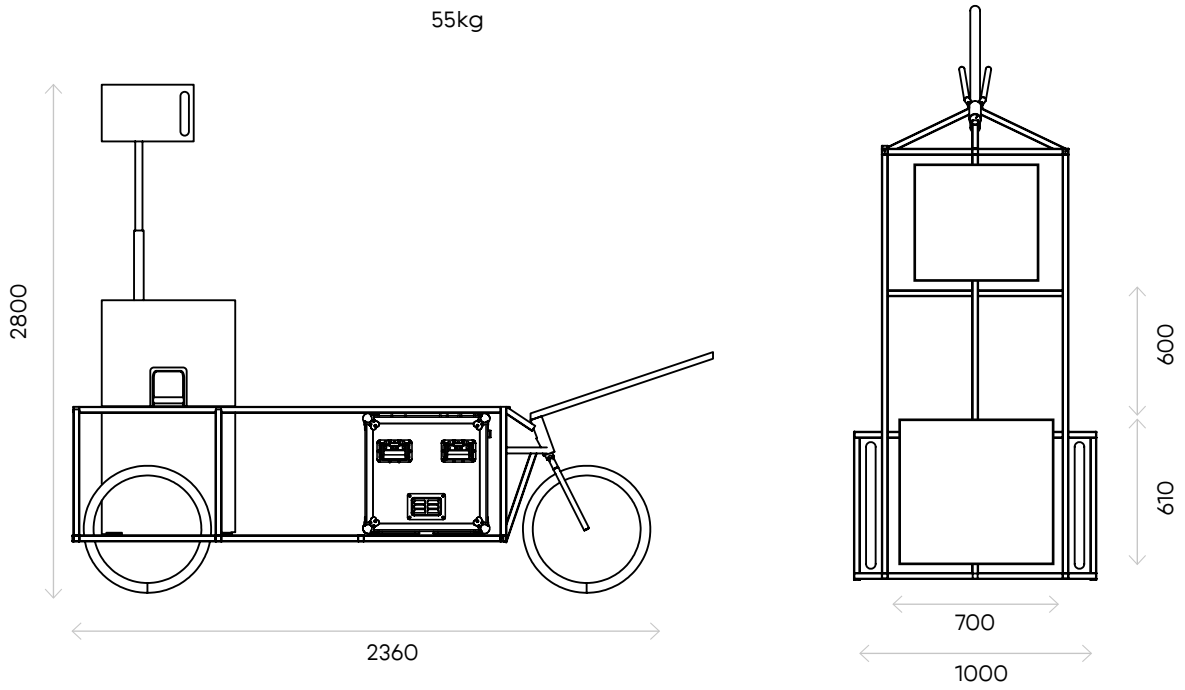
DIMENSIONS (LXPXH)mm	1000x2360x730
WEIGHT	30kg
MAXIMUM CHARGE	300kg

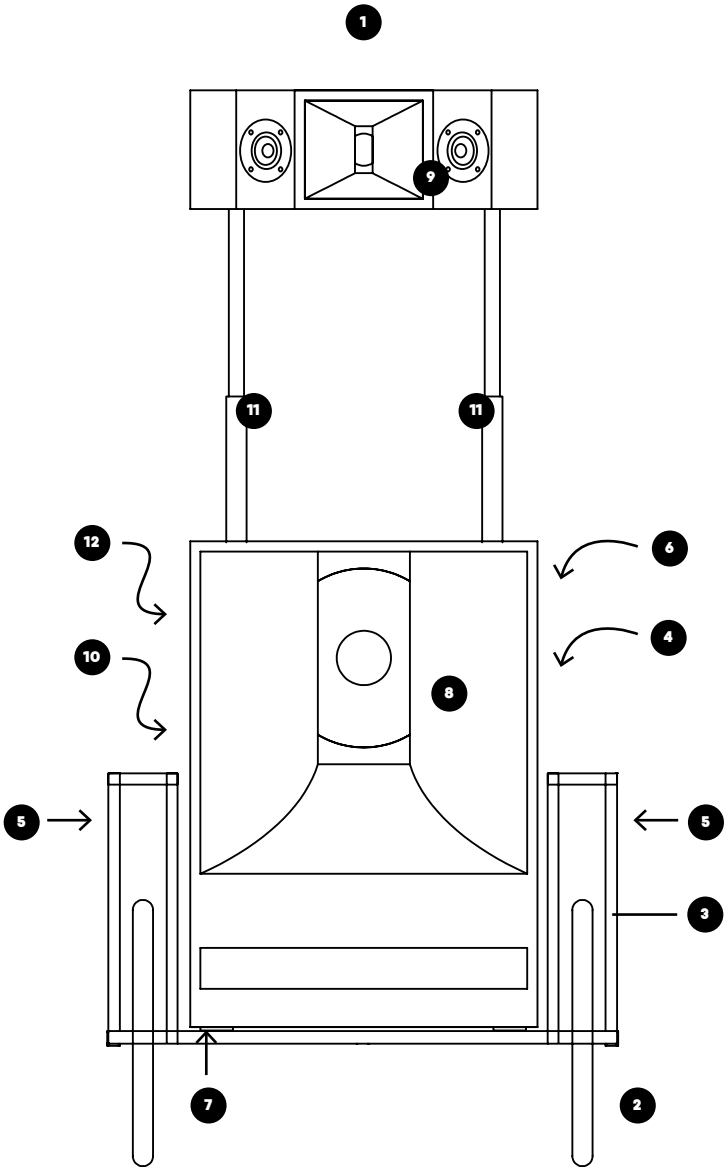
ACOUSTICS
• MT-1 stacked onto Woofer VDS-T
• 2 steel standing poles

DIMENSIONS (LXPXH)mm	Stacked : 680x610x1970 Separate : 680x610x950 & 680x370x230
WEIGHT	65kg each column (48kg VDS-T / 14kg MT-1)

AEA
• Rack shock proof
• Standard 10U
• Double handles / reinforced corners / ventilation grille / lockable sliding cover

DIMENSIONS (LXPXH)mm	600 x 555 x 805
WEIGHT	55kg



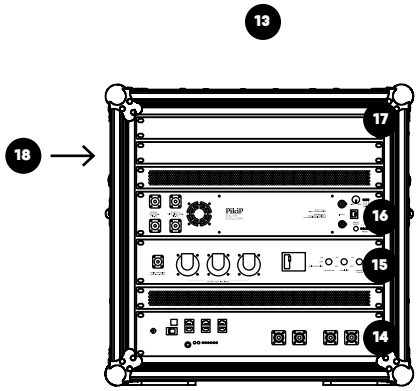


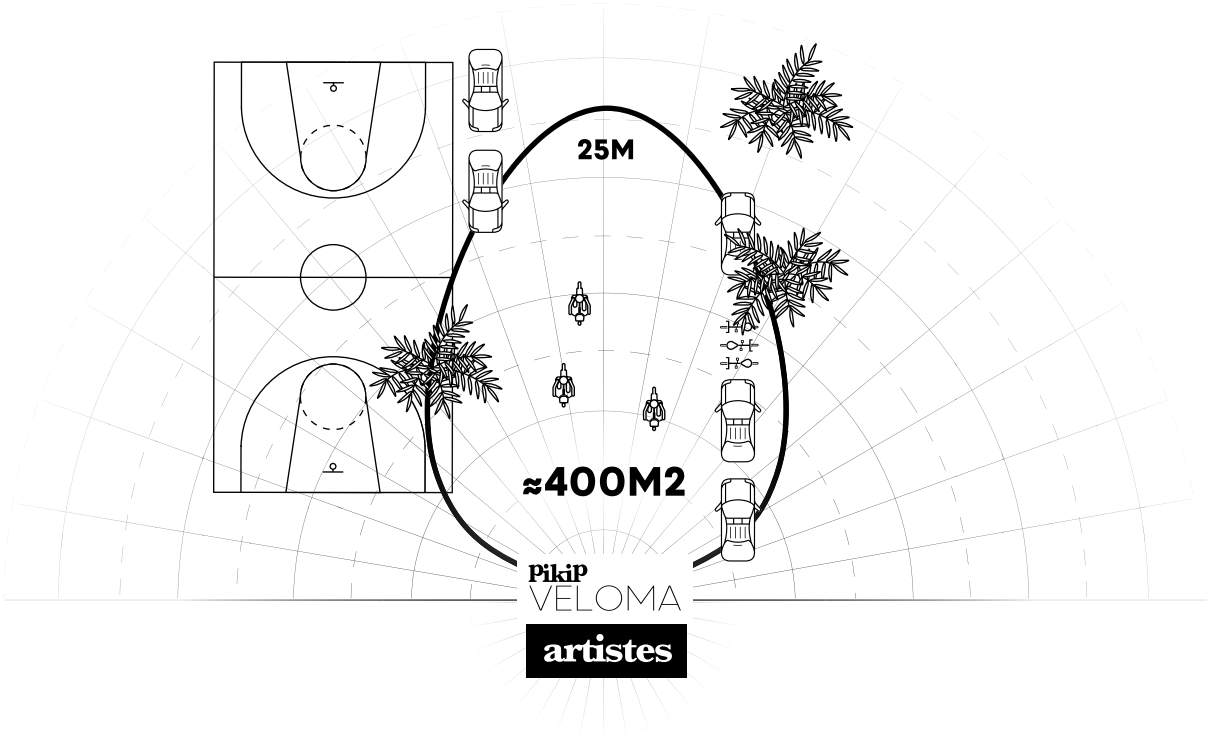
1. Column Lite
2. Reinforced wheels 14''
3. Stainless steel trailer
4. 1200W motor
5. Solar panel x2
6. Ball joint universal saddle tie
7. Non-slip wooden plateform
8. Low frequency transducer (VDS-T)
9. Medium & high frequency transducer (MT-1)
10. SPEAKON INPUT
11. Locking pins
12. Solar panel plug
13. AEA module (cf datasheet AEA)
14. Battery drawer 2U
15. Energy drawer 2U
16. Amplifier drawer 2U
17. Free drawer 3U
18. Energy monitoring

→ side

↷ Rear

AEA
Plus de detail
Fiche technique AEA





ACOUSTIC EFFICIENCY LABEL

*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).