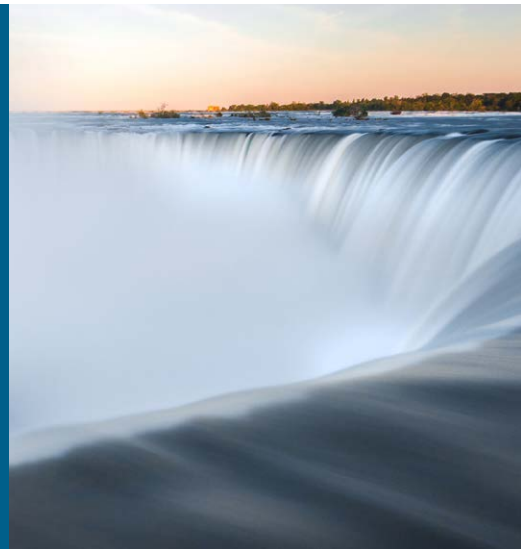




For  
dependable  
warning sirens  
with clear  
tones and  
effective voice  
communication



# TWS-293

## All hazard high-power siren system

The TWS-290 series features superior amplifiers and EZ-PULL™ speaker drivers, delivering powerful alarm tones and clear voice communication for effective emergency warnings. Housed in a durable, corrosion-resistant aluminum cabinet, boasting a true 360° sound coverage ensures comprehensive audio dispersion. The system operates at maximum power for a minimum of 30 minutes using TWSBATT 100-12 ensures functionality during critical situations.



### Features

- 3 pcs omni-directional modular speaker cells assembled in a vertical column performing a SPL of 119 dB(C) @ 100' / 30 m
- Clear voice reproduction achieving a STI intelligibility index of 0.99
- TWS-293 speaker includes 3 pcs high-efficiency EZ-PULL™ speaker drivers
- Speaker cluster made of non-corrosive carbon fiber reinforced polymer (non-metallic material)
- 15 m speaker cable included. FRNC, LSZH, IEC 60228 cl.5 copper strands
- IP66 rated aluminum cabinet with a separate battery compartment
- 3 pcs high-efficiency Class AB/F power amplifiers
- Surge Protective Device included for AC power supply (COAX SPD for antenna included with TWS-RADIO option)
- Six standard warning tones: Wail, Whoop, Attack, Hi-Lo, Alert, Airhorn
- Customizable alert tones based on customer preferences (optional)
- Alarm tone generator, automatic and live voice broadcast
- Battery-powered with tone activation for a minimum of 30 minutes of full power output using TWSBATT 100-12 batteries
- Siren system optimized battery charger
- Local or remote control / status
- Electronic siren controller with SI TEST® for silent self-diagnosis / test
- Full status monitoring, including low battery and amplifier / speaker status

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WARNING SYSTEM SOLUTIONS

*Every project matters to us!*

## Technical data

<b>Battery charger input</b>	90 - 264 VAC, 47 - 63 Hz, max 4.5 A
<b>Battery charger output</b>	21 - 30.4 V, max 12 A @ 25° C
<b>Batteries</b> (Sold separately)	2 pcs 12 V, AGM, SLA 100 Ah. Deep Cycle. See options
<b>Standby current</b>	82 mA, 24 VDC (typical)
<b>Operating current</b>	54 A, 24 VDC (typical)
<b>Output power per driver</b>	(typical/max) 400/600 Watts
<b>Total output power</b>	(typical/max) 1200/1800 Watts

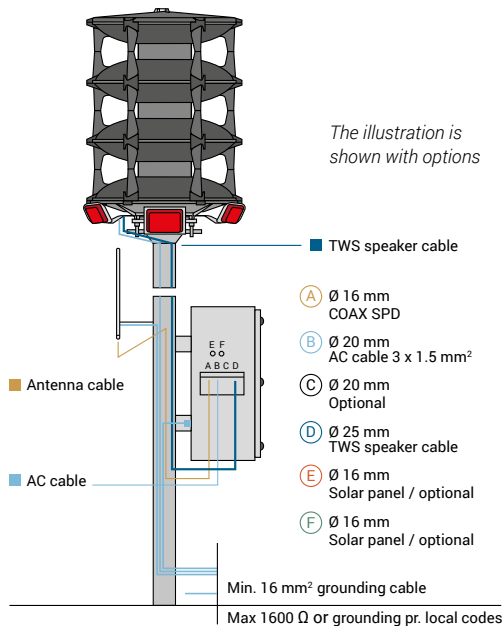
### Dimensions TWS-293 speaker

Height	1,153 mm (45.4")
Width	848 mm (33.4")
<b>Weight</b>	93.0 kg (205 lbs.)

### Dimensions Electronics cabinet

Height	845 mm (33.3")
Width	580 mm (22.8")
Depth	385 mm (15.1") / 400 mm (15.7")
<b>Weight</b>	37.0 kg (81.5 lbs.)*
<b>Operating temperature</b>	-35° C to +60° C (-31° F to +140° F)
<b>Storage temperature</b>	-65° C to +125° C (-85° F to +267° F)
<b>Humidity, non-condensing</b>	0 to 95%

\* Weight is exclusive batteries and options.

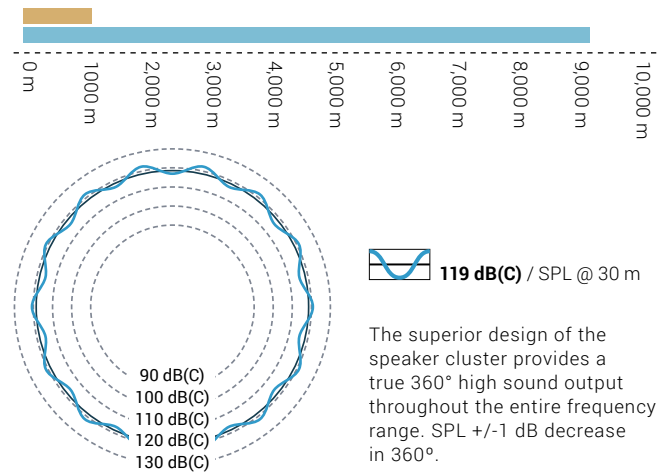


## Acoustic performance

<b>SPL @ 1 m</b>	149 dB(C)
<b>SPL @ 30 m</b>	119 dB(C)
<b>70dB range ISO 13475-1*</b>	9,110 m
<b>70dB range FEMA standard**:</b>	914 m

\* ISO: 6 dB sound pressure reduction pr. doubling of distance (as per ISO 13475-1)

\*\* FEMA: 10 dB sound pressure reduction pr. doubling of distance (as per FEMA guidelines)



## Ordering Information

Product Description	Order No.
High-power voice and siren system	TWS-293

Options	Order No.
AGM 12V 100 Ah batteries	TWSBATT 100-12
3000 W direct power supply	TWS-AC-PSU
Mounting brackets for cabinets	TWS-BRACKET
Sun shield	TWS-SUN
Intrusion alarm	TWS-INTRU
Solar power system	TWS-SBC400
Top mounted LED beacon	TWS-TL31R
Visualert LED light cluster	TWS-VALERT
Auxiliary / status control board	AUXCS
GSM solution 2G / 4G	GV-GSM-RTU
IP Interface for TWS-Siren series	GV-IP
DIN rail switch	TWS-SWITCH-SFP
Paging interface	GV-PGINT
Radio VHF / 136-174 Mhz	TWS-RADIO-V
Radio UHF / 403-470 Mhz	TWS-RADIO-U

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**ENGINEERING®**  
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Laegaardsvej 12 · 8520 Lystrup · Denmark  
Phone +45 7022 8844 · VAT no. 21822671  
info@hss.dk · www.hss.dk  
ISO 9001:2015 certified company

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