

HUMMINGBIRD

High-performance heavy-duty audio frequency generator

Megger[®]



- Transmitter for sending modulated current signals on power cables
- Supports the audio frequency method for tracking cables and for pinpointing low resistance faults
- Designed for challenging assets such as long HV/EHV subsea cables and HVDC interconnectors
- Most powerful audio frequency generator available in the market; output 40 kW, up to 100 A
- Frequency range 10...40 Hz, adjustable in steps of 1 Hz
- Works in conjunction with ROV-mounted subsea such as Magtrack

DESCRIPTION

The Hummingbird is a high-power audio frequency transmitter designed for the most demanding subsea power cable applications. It injects a controlled, low frequency modulated current in the range of 10...40 Hz into the conductor with the shield being the return, creating a magnetic field that can be detected by a subsea receiver system like Magtrack for precise cable tracking and pinpointing low-resistance main insulation faults.

Optimized for long HV/EHV AC subsea cables and HV DC interconnectors such as Viking Link or North Sea Link, the Hummingbird delivers an output of up to 40 kW and currents up to 100 A, making it the most powerful audio frequency generator in its class.

Operation is fast and intuitive: voltage, current, and frequency are each set independently via a simplified touch interface.

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TECHNICAL DATA*

Output power	40 kW max.
Output current	100 A max.
Output voltage	400 V max.
Output frequency range	10...40 Hz, adjustable in steps of 1 Hz
Harmonic distortion	Less than 3 % for all frequencies
HMI display	23 cm (9 in) industrial grade TFT touch display with LED backlight, 800 x 480
Mains input	400 V AC 3-phase, 50 Hz 5-pin CEE 125 A / 400 V, no RCD
Operating temperature	-5 °C ... +35 °C (+23 °F ... +95 °F) Relative humidity 93 % non-condensing at 30 °C
Storage temperature	-20 °C ... +60 °C (-4 °F ... +140 °F)
Weight	630 kg
Dimensions (W x H x D)	1000 x 1330 x 950 mm
Protection class	IP20

ORDER INFORMATION

Product	Oder Nr.
Hummingbird incl. set of cables	1015223

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