EB MAX 12/18

Main Features

- **Automatic or manual control of lamp frequency**

xDMX

AUTOSCAN

HIGH SPEED
300/1000 Hz

LOW NOISE
50/60 Hz

2
12/18 kW

U I
ALF
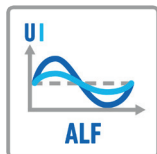
MAX Technology – Max Performance

Starting with the EB MAX 1.8 in 2017 ARRI built the foundation for a whole range of high speed electronic ballasts – the EB MAX range. Together with three other models – EB MAX 2.5/4, EB MAX 6/9 and EB MAX 12/18 – the MAX range combines cutting-edge features with new remote control possibilities from 575 up to 18,000 W.

The EB MAX 12/18 is designed for two power classes: 12,000 W and 18,000 W. When combined with state-of-the-art daylight lampheads such as the award winning ARRIMAX 18/12 or the rugged ARRI Daylight 18/12, it enables optimal performance and advanced control for high image quality – at any frame rate.

The EB MAX 12/18 is equipped with essential features such as Active Line Filter (ALF) and AutoScan, ensuring optimum light and image quality with a minimum of effort for high-speed recordings up to 1,000 fps and beyond.

Besides lamp operation at 50 or 60 Hz, if noise needs to be minimized, or at 75 Hz for standard frame rates, the EB MAX range accommodates high-speed frequencies at 1,000 Hz and – for the first time – at 300 Hz.

Three different modes are available for high-speed operation: AutoScan (fully automatic), Man (manual frequency control) or AutoMan (combining manual frequency setting with automatic frequency control). Using the AutoScan mode requires no further interaction by an operator. After a two-stage scan the lamp frequency is selected and set by the ballast; all parameters are continuously monitored and adjusted automatically, if required.

The EB MAX 12/18 as well as the other models of the EB MAX range offer new levels of DMX control. In addition to On/Off and dimming, both operation mode and frequency can now be controlled remotely. For ultimate ease of use, indicators on the ballast's front panel display the lamp wattage, DMX channel, operation mode and selected lamp frequency.
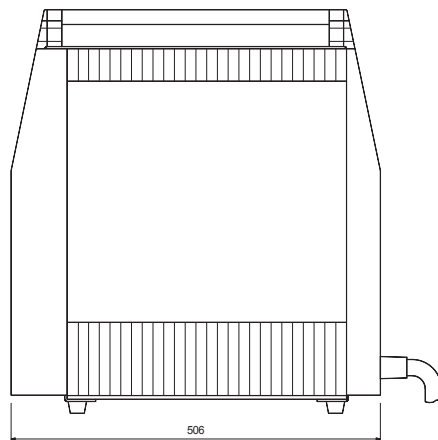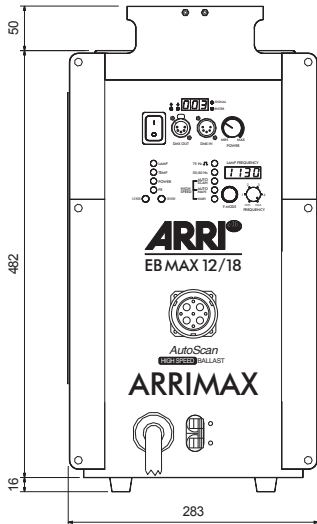
For Daylight-Systems ARRI offers an extended warranty period of five years.

5 YEAR
warranty for new daylight
systems (head + ballast)

Technical Specifications

EB MAX 12/18

L2.0016748	EB MAX 12/18, ALF, DMX, AutoScan (300 / 1,000 Hz)
L2.0019426	EB MAX 12/18, ALF, DMX, AutoScan (300 / 1,000 Hz) (Canada)
Ballast Type	Electronic High Speed Ballast for discharge lamps
Lamphead Types	ARRI M-Series ARRIMAX 18/12, ARRI Daylight 18/12 (ARRISUN 120, ARRI Compact 12000)
Weight	approx. 50 kg (110.2 lbs) / approx. 65 kg (143.3 lbs) incl. caddie
Dimension	548 x 283 x 506 mm / 21.6 x 11.1 x 19.9" (H x W x L)
Line Connection	bare ends
Lamp Power	12,000 W and 18,000 W, discharge lamps only
Line Voltage	190 - 250 V~, 50/60 Hz, 1, N, PE (single phase)
Line Current	68 - 51 A (230 V~) 12 kW lamp 103 - 78 A (230 V~) 18 kW lamp
Max. Power	19,600 VA (max.)
Power factor (cos φ)	cos φ 0.99 due to Active Line Filter (ALF)
Efficiency	min. 0.93
Protection Class / IP Rating	I / IP20
Temperature	45°C (113°F) for max. ambient temperature
Active Line Filter (ALF)	√
DMX	512, In and Out, 3 channels Dimming 100 % to 50 % of electrical output power On/Off Switch Mode Selection (Low Noise, Standard, AutoScan, AutoMan, Manual) Frequency setting (High Speed only)
DMX Connector	DMX In / Out (XLR 5-pol) connector
Ignition	Cold start and hot restrike
Automatic Detection	Lamp wattage detection
Lamp Frequencies	50/60 Hz (Low Noise) 75 Hz (Standard) 300 Hz / 1,000 Hz (High Speed; 3 modes)
High Speed Modes	AutoScan: Frequency scan, automatic control and adjustment of lamp frequency AutoMan: Manual frequency setting with automatic control and adjustment of lamp frequency Man: Manual frequency setting only, no automatic adjustment
High Speed Frequency Ranges	300 Hz : 270 - 360 Hz 1,000 Hz : 900 - 1,200 Hz
Indication	Display for DMX channel and lamp frequency Successful ignition with LED „LAMP" (yellow) Overtemperature with LED „TEMP" (red) Line Power with LED „POWER" (green) Protective earth with LED „PE" (green) Lamp type with LED (12 kW green, 18 kW yellow)

All values are nominal / typical values.