

High Speed Ballast EB 12/18 HS

Main Features

- High speed operation of 18,000 W daylight lamps
- Suitable for high frame rate images
- Automatic or manual control of lamp frequency
- Supports 50 or 60 Hz (Low Noise)
- Active Line Filter (ALF)
- DMX control for dimming and on/off

ARRIMAX goes High Speed

New possibilities opened up by today's digital cameras have made higher frame rates increasingly popular. Images filmed at 200 fps and beyond without any sacrifice of image quality require sophisticated new lighting tools.

ARRI already offers a wide range of high speed ballasts, up to 9,000 W. The new electronic ballast EB 12/18 HS now extends that range all the way up to 18,000 W.

A new AutoScan mode scans the lamp from 900 to 1,200 Hz and determines the frequency that will minimize light fluctuation. This advanced feature sets the optimum lamp frequency according to each specific setup, since the behavior of discharge lamps may change with the tilt angle and the number of burn hours.

AutoScan is automatic and requires no interaction from the operator.

In addition, a manual mode is available that allows users to set the lamp frequency manually. Whether controlled manually or automatically, the wide bandwidth of 300 Hz ensures that the ideal lamp frequency can always be found, even for very high frame rates.

The new EB 12/18 HS also offers all the standard features of ARRI ballasts. It controls lamp

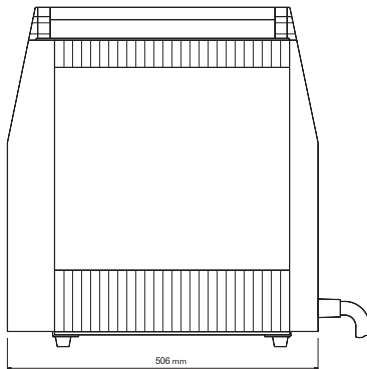
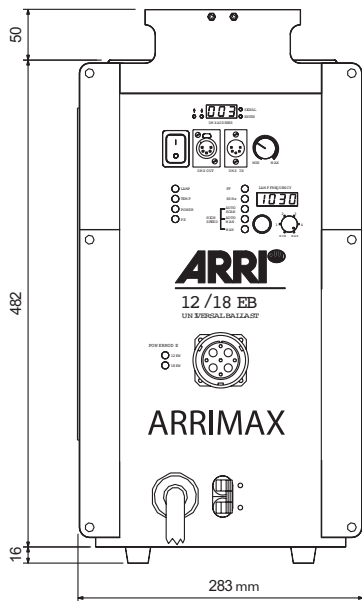
wattages not only through the current or voltage; Active Line Filter (ALF) is included, as well as DMX. The indicators on the front panel show the lamp wattage, DMX channel, operation mode and the selected lamp frequency.

Together with the ARRIMAX 18/12, the EB12/18 HS provides a unique system for extremely powerful high-speed, high-quality images.



Technical Specifications

EB 12/18



L2.76295KH	EB 12/18 HS, ALF, 190-250 V, DMX, Autoscan 900 to 1,200 Hz
Ballast Type	Electronic Ballast
	Electronic High Speed Ballast for 12.000 W and 18.000 W discharge lamps
Lamphead Types	ARRI Daylight 12000, ARRI Daylight 18/12 (PLUS), ARRI Compact 12000 and ARRIMAX 18/12
Weight	approx. 49 kg (108 lbs) / 64 kg (141 lbs) with trolley
Dimension	548 x 283 x 506 mm (21.6 x 11.1 x 19.9 inch) (HxWxL)
Lamp Power	18.000 W or 12.000 W Discharge Lamps only
Line Voltage	190 - 250 V~ 50/60 Hz; 1, N, PE (single phase)
Line Current	12 kW lamp: 68 – 52 A (eff.) 18 kW lamp: 102 – 78 A (eff.)
Max. Power	19.400 VA (apparent), 19.000 W (real input)
Power factor (cos φ)	cos φ 0.98 due to Active Line Filter
Efficiency	approx. 0.95
Protection Class	I
IP Rating	IP22
Temperature	50°C (122°F) for max. ambient temperature
Active Line Filter (ALF)	√
DMX	512, In and Out, dimming 100% to 50% output power, switch On/Off
DMX Connector	DMX In / Out (XLR 5-pol) connector
Ignition	Cold start and hot restrike
Automatic Lamp Detection	Indication of detected lamp type with LED (12 kW green, 18 kW yellow)
Lamp Frequency	50/60 Hz (Low Noise), 75 Hz (Flicker Free), 900 to 1200 Hz (High Speed)
High Speed Modes	AutoScan: Frequency scan and automatic control and adjustment of lamp frequency AutoMan: Manual frequency setting with automatic control and adjustment of lamp frequency Manual: Manual frequency setting only, no automatic adjustment
Indication	Display for DMX channel and lamp frequency Successful ignition 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)