



**KLS martin**  
GROUP

**marLED<sup>®</sup>** E15/E9i

New definition of light



## Efficiency in the light of **marLED®** E15/E9i

It is brilliant light based on the latest LED technology. Sturdy, stable, and powerful: The marLED® E is no less tailored to your needs than your operating room at large. It is available in two designs and combinations: marLED® E15 and E9i.

In the marLED® E Battery version, these operating lights can be used off the grid for up to eight hours. Great for use in humanitarian efforts, for example.

The light series satisfies the highest hygienic requirements and also impresses with its excellent price-performance ratio. This pays off handsomely, benefitting all who use it. marLED® E – light just couldn't be more efficient.



Practical and convenient:  
The marTouch® remote control lets you control operating lights and the camera system surgiCam®, but offers users lots of additional information. Docking station included, with table or wall fixation.







## The **marLED® E** – best light for the perfect cut!

Superior color rendering for reliable assessment of the biological tissue characteristics, daylight-like color temperatures and outstanding laminar flow performance – these are features that arouse enthusiasm in every surgeon. The marLED® E offers illumination intensities of up to 160,000 lux – with unrivaled energy efficiency. Color temperature can be selected in three stages. Heat performance is no less outstanding: The warmest spot of the light head will at most just feel warm to the touch. Both the light field and the backlite mode can be controlled via the sterilizable handle. So this is why the marLED® E is so efficient, in performance, use and handling.

The latest LED lens technology accounts for a homogenous light field, maximum shadow dilution, brilliant light and perfect color rendition. The boost mode offers maximum lighting performance with wide-area illumination, while the backlite mode provides the ideal background light for endoscopic surgery.





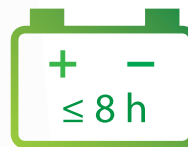
## Enlightening benefits for your eco balance

For all those who already think of tomorrow in their daily dealings, the marLED® E is the light of the future. This is simply because it not only offers perfect illumination of the surgical site, but ensures excellent energy efficiency at the same time. This pays off in multiple ways, for hospitals, patients – and the environment.

GoGreen



## marLED® E Battery – mobile, powerful, self-contained



It looks exactly like the marLED® E, it is just as powerful, but it provides light independently, irrespective of whether mobile or fixed in place – the marLED® E Battery.

The batteries are integrated right into the light head and can be easily recharged in just a couple of hours.

As a result, the marLED® E Battery delivers brilliant light for up to 8 hours. Wherever it is used – in the wilderness, in humanitarian efforts, in developing regions, in crisis areas. In fact, anywhere where light matters a lot – but no power supply is available.

From the smallest to the largest light – the marLED® E Battery series includes all variants of the customary marLED® E series. And it also offers a maximum output of 160,000 lux. Reliable independent power supply just couldn't be more mobile.



## A clean solution in every respect

No visible screw connection, seamless cover glasses, integrated gaskets, innovative joining technology – the marLED® E impresses with a first-rate cleaning performance. It fully satisfies even the most stringent hygiene requirements. Perfectly suited for fast and easy, yet thorough wiping disinfection.



Flush front glasses with integrated gaskets prevent any capillary effect when applying detergents.



The seamless and smooth surface design of the light head permits fast and reliable cleaning unimpeded by external screws.







## On balance a splendid result

A light source life of > 60,000 hours, a cardanic suspension tailored to the operating room, a hitherto unknown laminar flow performance – the marLED® E offers an unrivaled combination of economy, efficiency and security in terms of lighting and hygiene! The bottom line is an excellent price-performance ratio – just the right investment for any clinic or hospital.

All marLED® E lights are also available in a battery version for off-the-grid operation. Following a charging period of just two hours, these versions provide light for up to eight hours.

	marLED® E15	marLED® E9i
Turbulence degree (standard value: 37.5%)	24%	27%
Power input <sup>1</sup>	35 W	40 W
Average life expectancy of light source	> 60,000 h	
Light field diameter (d10, distance of 1 m)	190-290 mm	180-270 mm
Central illuminance (at a distance of 1 m)	160,000 lx	
Color temperature	3,800 K / 4,300 K / 4,800 K	
Central illuminance (electric dimming from/to)	30–100% / 5% (in endo-mode)	
Color rendering index (CRI) [Ra (1-8)] / R9	99	
Battery charging time <sup>2</sup> (for marLED® E Battery)	2 h	

<sup>1</sup>) at 24 VDC, small light field, maximum illuminance    <sup>2</sup>) in standby mode

Due to manufacturing and measuring tolerances, all data relating to lighting systems has a tolerance of +/- 10%.

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