KLS martin GROUP



marLED® E9i/E15 battery

Equipped for all uses.



Brilliant operating light with integrated rechargeable battery

The marLED® E series is also available in a battery version, as marLED® E9i battery and marLED® E15 battery. Looks just like the marLED® E and is just as powerful.

Mains independent performance, whether mobile or permanently installed.

The advantages of modern lithium-ion technology of rechargeable batteries

- Outstanding performance in a compact design compared to conventional rechargeable batteries
- No memory effect
- Low self-discharge
- Extremely long service life
- State-of-the-art cell monitoring reliably prevents deep discharge

Sufficient power for all uses

The rechargeable batteries are integrated directly into the lamp body and only require 2.5 hours of charging time. After charging, the marLED® E battery provides up to eight hours of brilliant light with an illuminance of up to 160,000 lux. No matter where it is used – in humanitarian missions, in developing areas, in crisis situations. In fact, simply where it matters – when electricity is not available or where a reliable power supply cannot be guaranteed.

Just goes to show how mobile an autonomous, reliable and powerful system can be.

2.5 h
charging time

8 h rechargeable
battery service life

160,000 Lux



Light – always when it is needed. There where it counts.

Tsunamis, typhoons, earthquakes, volcanic eruptions, fires - climate change often manifests itself in disasters that require emergency care. Humanitarian aid is of the utmost importance in such crisis areas, but also in developing regions. An adequate infrastructure and power supply are often not available in such areas.

That is why relief organizations and aid workers are particularly dependent on first-class equipment to perform surgical procedures under difficult conditions. marLED® E Battery can help here. With brilliant light – right there where it counts.



As a result of the climate change, not only storms but also earthquakes, tsunamis and volcanic eruptions will increase in the future.

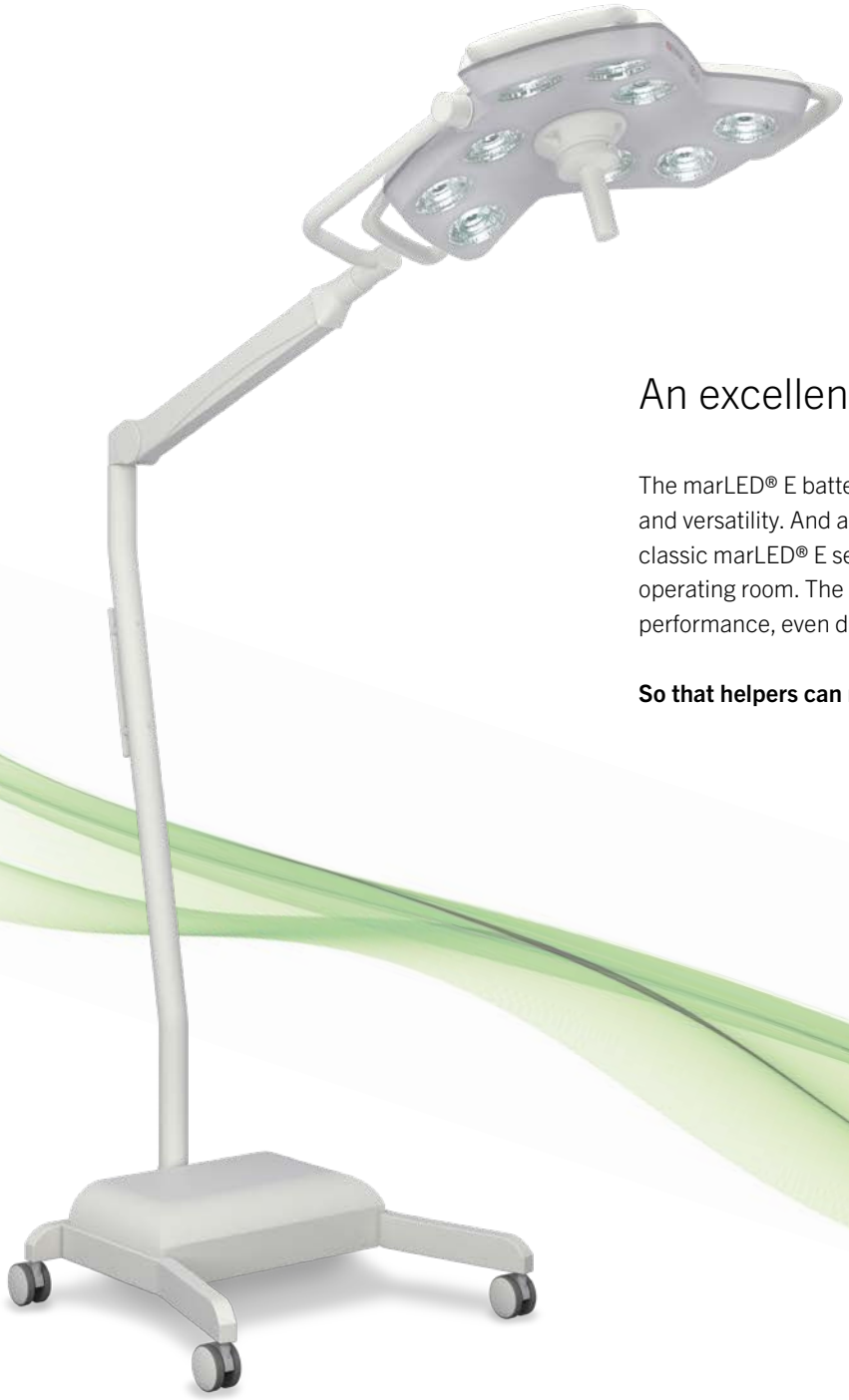
Frankfurter Rundschau



Mobility and Flexibility

To ensure light where it matters, the marLED® E battery is based on a concept that has been carefully thought out down to the smallest detail: mobility, flexibility, robust construction and long-term use. Quick to charge, quick to load, quick to unpack, plus long-lasting operational capability, its range of use extends far beyond that of an ordinary operating theater.

This makes marLED® E battery predestined for mobile use. Through easy transport to the site via helicopter, airplane or emergency vehicles. By the same token, installation on ceilings and walls in containerized ORs is possible.



An excellent mix

The marLED® E battery impressively combines lighting performance and versatility. And although in no way less impressive than the classic marLED® E series, its field of application extends beyond the operating room. The marLED® E battery therefore delivers a convincing performance, even during surgery under difficult conditions.

So that helpers can really help.



The marLED® E series, right down to the tiniest detail. Everything at a glance.

	marLED® E9i	marLED® E15
Degree of turbulence (standard value 37.5% max.)	27%	24%
Power rating[1]	50 W	40 W
Expected average service life of the lamp	> 60,000 h	
Light field diameter (d10, distance 1 m)[2]	180-270 mm	190-290 mm
Central illuminance (1 m distance)	160,000 lx	
Color temperature[2]	3,000 K to 5,500 K (infinitely variable)	
Central illuminance electrically dimmable from/to[2]	31-100% / 1-30% (Endo mode)	
Color rendering index Ra /R9/R13	99	
Rechargeable battery charging time[3] (for marLED® E battery)	2.5 h	
IP protection class	42	

[1)] at 24 VDC, small light field, maximum illuminance
[2)] extended setting options with optional marTouch® Pro
[3)] for lamp in standby mode
For production reasons and metrological reasons, all of the data provided relating to the light output has a tolerance of +/- 10%.
All values conform to IEC 60601-2-41.

KLS Martin Group

KLS Martin Australia Pty Ltd.
Sydney · Australia
Tel. +61 2 9439 5316
australia@klsmartin.com

KLS Martin do Brasil Ltda.
São Paulo · Brazil
Tel. +55 11 3554 2299
brazil@klsmartin.com

KLS Martin Medical (Shanghai) International Trading Co., Ltd
Shanghai · China
Tel. +86 21 5820 6251
info@klsmartin.com

KLS Martin India Pvt Ltd.
Chennai · India
Tel. +91 44 66 442 300
india@klsmartin.com

KLS Martin Italia S.r.l.
Milan · Italy
Tel. +39 039 605 67 31
info@klsmartin.com

KLS Martin Japan K.K.
Tokyo · Japan
Tel. +81 3 3814 1431
info@klsmartin.com

KLS Martin SE Asia Sdn. Bhd.
Penang · Malaysia
Tel. +604 261 7060
malaysia@klsmartin.com

KLS Martin de México, S.A. de C.V.
Mexico City · Mexico
Tel. +52 55 7572 0944
mexico@klsmartin.com

KLS Martin Nederland B.V.
Huizen · Netherlands
Tel. +31 35 523 45 38
infonl@klsmartin.com

KLS Martin SE & Co. KG
Moscow · Russia
Tel. +7 499 792 76 19
russia@klsmartin.com

KLS Martin Taiwan Ltd.
Taipei · Taiwan
Tel. +886 2 2325 3169
taiwan@klsmartin.com

KLS Martin SE & Co. KG
Dubai · United Arab Emirates
Tel. +971 4 454 16 55
middleeast@klsmartin.com

KLS Martin UK Ltd.
Reading · United Kingdom
Tel. +44 118 467 1500
info.uk@klsmartin.com

KLS Martin LP
Jacksonville · Florida, USA
Tel. +1 904 641 77 46
usa@klsmartin.com

KLS Martin SE Asia Sdn. Bhd.
Hanoi · Vietnam
Tel. +49 7461 706-0
info@klsmartin.com

KLS Martin SE & Co. KG
A company of the KLS Martin Group
KLS Martin Platz 1 · 78532 Tuttlingen · Germany
PO Box 60 · 78501 Tuttlingen · Germany
Tel. +49 7461 706-0 · Fax +49 7461 706-193
info@klsmartin.com · www.klsmartin.com

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