

## **Medipower**™ iBEPU





Surgical luminaries are one of the critical systems within the OR and require the highest level of power supply resilience. To ensure this each luminaire should have its own primary (mains) and secondary (battery backup) supply. In accordance with HD60364-7-710, BS7671-2018 (18th edition) and HTM06-01:2017, the surgical operating light must have a back up of 3 hours.

- Time and cost saving via automated test and battery maintenance.
- HTM 06-01 compliant.
- Modbus communication.
- Intelligent theatre control panel (iTCP) connection.
- Easy to monitor and configure with Near Field Communication (NFC).
- Collects data for secure reports via Android app.

Brandon Medical's iBEPU system consists of:

- An integrated power supply unit (PSU).
- A separate battery charger.
- 10-year design life batteries.
- High speed (static switch) changeover unit.
- Modbus communication to iTCP.

The primary supply unit (PSU) will provide the lamp with power under normal operating conditions. Should the primary supply suffer a mains failure or a catastrophic component failure, then the iBEPU will switch over to its own battery supply.

Through its associated app engineers can configure, maintain and provide reporting on the battery system.



## Isolated to Integrated











Award Winner

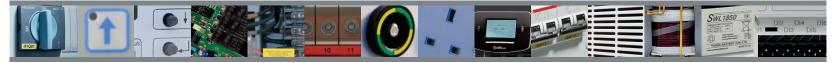






## **Medipower**<sup>™</sup> iBEPU





Mechanical Sizes and Weights Specification	
BEPU0300L Enclosure Size	400 x 400 x 200mm
nclosure Material	Steel
ainted	RAL9010
Veight without batteries	11kg
8Ah Battery Size L x W x H	180 x 76 x 167mm (Part No. EBL13847-1218)
Colour Rendition Index (Ra)	>95
Colour Rendition Index Red Colour (Rg)	>95
BEPU Electrical Specification	
nput Voltage VDC	85 to 265 VAC
Output Voltage VDC	20 to 28.5 VDC
Max Output Current	4A
Vattage (VA)	125VA
Nax Discharge Current	30 Amps Max
lattery Autonomy (Based on 1 x QE60)	3 Hours @21°C
solation Voltage	Input to Output 2k VAC
solation Resistance	100 ΜΩ
mbient Temperature	15 to +30°C
torage Temperature	-40 to +70°C
relative Humidity	20 to 95% RH
nstallation Position	Vertical
ollution Degree	
Degree of Protection	IP20
PS Current Consumption (No Load)	0.2 Amps
IPS Current Consumption (No Load)	3.5 Amps
attery Voltage Range	19.2 - 28.5 VDC
Cooling Method	Free Air Convection
attery Reverse Voltage	28.5 VDC
attery Output Fuse	10 Amps
lecommended Batteries	
	2 x 12 V 18Ah in Series
lominal Charge Voltage	27.2 V
lattery Low Voltage Cut-Out Setting	19.2 V
Diagnostic PCB	
olt Free Contact Rating	2A @ 30 VDC
oltage Measurement Range	0 - 30 V ±2%
emperature Measurement Range	0 to 70°C ±3°C
Current Measurement Range	0 to 3A ±10mA
ocal Indicators	Mains Healthy, Battery In Use, Battery Fail
Configurable	Via NFC Interface
Communications	4-Wire RS485
rotocols	Modbus RTU Slave
approvals and Standards	
MC	EN60601-1-2:2015
afetv	EN60601-1:2006+A12:2014
onety Other	HTM06-01 Compliant
Recommended Electrical Installation Circuit Breakers and Cables	THINIOU-UT COMPliant
ncoming Mains Cable	2.5mm sq protected by single 6 amps "B" type MCB
· · ·	7 7 7
Outgoing Operating Lamp Cables	6mm run no greater than 25m, protection single 6 amps "C' type MCI

## **Exceeding Standards**

Brandon Medical is certified as an ISO 13485 and ISO 9001 manufacturer, the global standard for medical device manufacturers. Brandon Medical Astralite® conforms to IEC 60601-1, IEC 60601-1-2 and IEC 60601-2-41











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iBEPU



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