

E100/E100G EPIRB Specifications

406MHz Satellite Transmitter

Frequency.....	406.037MHz
Tolerance.....	±1kHz
Stability.....	2ppb/100ms
Output Power.....	5watts (nominal)
Modulation.....	Phase ±1.1radians (peak)
Emission Designator.....	16K0G1D
Encoding	Bi-phase L
Data Rate.....	400bps
Duration.....	520ms

121.5MHz Homing Beacon

Frequency.....	121.5MHz
Stability.....	±50ppm
Output Power.....	25-100mW PERP
Modulation.....	Swept Tone AM
Emission Designator.....	3K20A3X
Modulation Depth.....	85-100%
Sweep Range.....	400Hz – 1300Hz
Duty Cycle.....	35-55%

Low Duty Cycle Strobe Light

Light Type.....	Dual high intensity LEDs
Light Colour.....	White
Output Power.....	>0.75candela
Flash Rate.....	20-30 flashes per minute

GPS Receiver (E100G only)

Sensitivity Cold Start.....	-146dBm
Sensitivity Re-acquisition.....	-162dBm
Satellites channels tracked.....	50
GPS Antenna.....	Microstrip patch

Battery

Type Lithium Primary	
Chemistry.....	Manganese Dioxide (LiMnO ₂)
Operational Life	
(E100G Class 2 with LB2E).....	typically 96hours
Replacement Interval.....	5years

Environmental

Operating Temperature Range.....	-20°C to +55°C
Storage Temperature Range.....	-30°C to +70°C
Automatic release depth.....	4metres (max)
Waterproof.....	>10metres at +20°C

Dimensions

Height (body).....	212mm
Body Diameter (max).....	106mm (113mm)

Standards and Approvals

(All approvals pending)

Cospas-Sarsat.....	T.001 / T.007
IMO regulations.....	A.662(16); A.694(17); A.810(19) ¹ ; A.814(19)
International Standards	
Radio.....	IEC61097-2
EMC.....	IEC60945
European approval	
GMDSS.....	Marine Equipment Directive A.1/5.6
USA Standards	
RTCM.....	SC110
FCC.....	CFR47 part 80.1101

¹As amended by MSC.56(66) and MSC.120(74)

(All specifications subject to change without notice)