

Battery Declaration of Design: NiCd 1.6Ah



Declaration of design for NiCd cells and batteries for use in Emergency Lighting Luminaires

	Technical Data	International Standards & Clauses
Producer's Range	One Lux D16	-
International Designation	KRMU 23/43	IEC 61951-1:2014 (5.1.1.3)
Cell Chemistry	NiCd	-
Format	Sub-C	IEC 61951-1:2014 (5.1.1.3)
Rated capacity at C/5	1.6Ah	IEC 61951-1:2014 (3.2)

Expected operating life under following conditions:	>4 years	BS EN 60598.2.22:2014 (22.7.8)
- Maximum continuous temperature	+55°C	IEC 61951-1:2014 (7.5.2.5) Tested simulating 4 years of permanent charge at +50°C
- Maximum temperature (occasional)	Up to +70°C	<1 month
- Minimum continuous temperature	+5°C	
- Preconditioning 20hr Charge	200mA	
- Fast 15hr Charge	180mA	Ta = +5~50°C
- Permanent charging current	70 - 90mA	Ta = +5~55°C
- Maximum recharge time at 80mA	24 Hours	
- Maximum charging voltage	1.7V	
- Minimum charge/ discharge cycles	50	
- Maximum discharge frequency	Once per month	
- Minimum discharge duration at the maximum rate of:	1 Hour = 1A	According to BS EN 60598-2-22:2014 (Annex A - A.4.2)
- Low Cut off Voltage	1V/Cell	

ISSUE	DATE	DETAILS OF REVISION
1	15/11/16	