

Gilbert Gray & Co Pty Ltd

OLDHAM 'L' and 'T' BATTERIES

BATTERIES FOR MINING AND INDUSTRIAL SAFETY HANDLAMPS AND CAP LAMPS



Oldham is proud to continue the well established reputation of innovation and product development with the world's most advanced range of batteries for caplamp and other electrical systems.

New advances in technology allow us to introduce lithium to complement the long-established and totally reliable lead-acid 'T' type battery.

The batteries have been designed with a common lid design so that they are fully interchangeable and compatible with all of our lamp designs, enabling the user to easily transfer between our different battery and lamp technologies.

Together with the recent introduction of the Oldham D-type (LED) headpiece, you are now witnessing the return of the "brighter miner", supported by Oldham products.

T5 and T6 Batteries (Megalight)

CERTIFICATION FOR 'T' RANGE OF BATTERIES	
SIRA Certification	SIRA 02ATEX3175
MSHA Certification	Approval No. 6D-49-1 / A&CC Par No. 87237
ANZEx	ANZEx 07.4049x
Certification Type Code	EEx I and EEx eib IIC - both at (Ta=0°C to 40°C)

These 16Ah 3-plate batteries were first introduced in 1998 to comply with MSHA "intrinsically safe" requirements. The battery is ideal for 10 to 12 hour shift working or for "add on" equipment. The product was improved in 2002 with new positive spine alloys to reduce water loss and improve cycle life.

Each battery is made up from 2 x 2-volt cell groups to make the 4-volt battery. Each cell contains 180 ml of dilute sulphuric acid at a maximum S.G. of 1.280. The polycarbonate battery box is extremely rugged and has fulfilled numerous impact and crack tests in order to achieve the necessary certification for mine safety.



L16 Battery



The advantages of lithium technology is most noted in the extreme light weight of the battery. The maintenance free L16 is built into a tough and rugged polycarbonate box and is suited for 12-hour shift operations with conventional halogen or D-type LED headpiece. In comparison to similarly sized NiCD and NiMH batteries, lithium batteries reduce the weight and volume by 15-40%. With lower self-discharge rates than nickel-based battery technologies, lithium batteries also benefit from having no memory effect.

Certification for L16 batteries		lamp model
ANZEx	ANZEx 07.4049x	GL16
IECEX	IECEX SIR 07.0018	
IECEX	IECEX ITS 08.0019	DL16

SPECIFICATION	T5 & T6	L16
Length of battery (at base / at lid)	152 / 152 mm	111 / 152 mm
Height of battery (to cable exit at lid)	218 mm	125 mm
Width of battery (inc belt loops)	55 mm	55 mm
Battery case material	Polycarbonate	Polycarbonate
Battery cover material	Polycarbonate	Polycarbonate
Weight of battery	2.25 kg	0.7 kg
Nominal battery voltage	4 volts	3.6 volts
Operational duration with halogen bulb / LED headpiece	12 hrs / 12+ hrs	12 hrs / 12+ hrs
Normal cycle life (80% D.o.D)	600 / 400 cycles	> 600 cycles (Cycle tests indicate over 85% of original capacity will still be achieved after 800 cycles)