

CELLULOID ACCUMULATORS



Type	Volts.	Act. Cap.*	Weight Dry lbs. ozs.	Weight with Acid lbs. ozs.	PRICE s. d.
CL1	2	13	2 2	2 9	8 6
CL2	2	26	3 4½	4 3	9 3
CL3	2	40	4 8	6 0	11 3
CL4	2	53	5 12	7 6	13 3
CL5	2	66	6 14	9 2	15 3
CL6	2	80	7 15	10 12	17 3

*At 20 hour rate of discharge.

UNSPILLABLE MODELS

Suitcase Types

Type	Volts	Act. Cap.	Dimensions in inches			Weight Dry lbs. ozs.		Weight with acid lbs. ozs.		PRICE s. d.
			W.	L.	H.	lbs.	ozs.	lbs.	ozs.	
PYV4	2	12	2 5/8	3 3/8	3 15/16	2 0	2 8	9 0		
PZV3	2	28	4 1/8	4 1/8	3 1/8	3 11 1/4	4 6	13 6		
PXV3	2	20	3 1/8	4 1/8	3 1/8	3 2	3 10	13 0		
PYV7	2	20	2 3/8	3 3/8	5 1/8	3 4	3 13	13 0		

Transportable Types

Type	Volts	Act. Cap.	Dimensions in inches			Weight Dry lbs. ozs.		Weight with acid lbs. ozs.		PRICE s. d.
W.	L.	H.	lbs.	ozs.	lbs.	ozs.				
TXV4	2	30	4 3/8	2 7/8	6 5/8	4 5	5 9	11 6		
TCV3	2	30	4 3/8	2 1/2	7 7/8	4 1	5 1	11 6		
TCV3A	2	30	4 3/8	2 1/2	7 7/8	4 2	5 2 1/2	11 6		
TSV4	2	35	5 1/8	2 3/8	6 3/4	5 10 1/4	7 0 1/4	15 0		
SMV6	2	20	3 1/8	4 3/8	4 3/8	3 7	4 4	11 6		
TWV5	2	20	2 1/8	2 1/8	7 1/2	3 10	4 3	11 6		
TZV4	2	28	4 3/8	5 1/8	5 1/8	3 6	4 7	12 0		

Jelly Acid Types

Type	Volts	Act. Cap.*	Dimensions in inches			Weight lbs. ozs.		PRICE s. d.
			W.	L.	H.	lbs.	ozs.	
JLV4	2	16	3 3/8	2 1/4	4 1/8	3 6	11 6	
JLV6	2	24	3 3/8	3 1/4	4 1/8	4 12	13 0	
JLV7	2	28	3 3/8	3 1/4	4 1/8	5 6 1/2	14 6	
JCV3	2	30	4 1/8	2 3/8	6 3/4	5 3	13 0	
JSMV3	2	14	1 1/2	4 1/4	3 3/4	2 3	9 0	
JSMV4	2	18	2 1/8	4 1/4	3 1/4	2 14	10 0	
JSMV5	2	23	2 1/8	4 1/4	3 1/4	3 7	11 0	
JSMV6	2	28	3 1/8	4 1/4	3 1/4	4 1	12 0	

*At 20 hour rate of discharge.



H.T. DRY BATTERY

Sold in the following sizes and types

Standard	Price	Triple Capacity	Price
66 volts -	8/-	64 volts -	13/-
99 " -	12/6	120 " -	24/-
108 " -	14/-		
120 " -	15/6		

GREEN BAND DRY BATTERIES

60 volts -	5/6	99 volts -	9/-
66 " -	6/-	120 " -	11/-
Grid Bias 9 volts -	1/-	16 1/2 volts -	1/9

Special Replacements for Popular Sets

Pye Q	- 126 volts including Grid Bias	15/-
K.B. Pup	100 volts including Grid Bias	11/6
Burgoyne and others	99 volts including Grid Bias	10/-

The Lively "O" H.T. Dry Battery is made from the highest grade materials and is tested and tried at every stage in its production.

The Lively O

THE RADIO WORLD WITHIN HIS GRASP

Obtainable from :-

OLDHAM U.S.

HT ACCUMULATORS

with air-spaced cells



An exclusive development in HT Accumulators—air, one of the greatest insulators known, is permitted to circulate freely around the five glass cells composing the unit, thus completely eliminating electrical leakage. This is a unique Oldham feature which undoubtedly means longer service and less frequent re-charging.

LHT Type

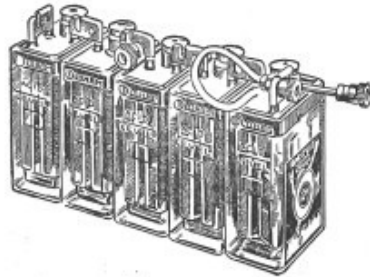
6/9

Per 10-volt.
Cap. 5500 m/a

HT Type

5/6

Per 10-volt.
Cap. 2750 m/a



Oak Trays, Lids and Bases

Another outstanding feature— Oldham HT accumulators can be built up, unit by unit, until the desired voltage is obtained. Oak trays, lids and bases are supplied to hold them in neat compact position.



Type L.H.T.

Oak trays (four 10-volt units) each	6/4
Oak Lid for above	2/-
Oak Base for above	2/-
Oak trays (six 10-volt units) each	7/-
Oak Lid for above	3/-
Oak Base for above	3/-

Type H.T.

Oak trays four (10-volt units) each	4/-
Oak Lid for above	2/-
Oak Base for above	2/-
Oak trays (six 10-volt units) each	4/6
Oak Lid for above	3/-
Oak Base for above	3/-

HT 120 VOLT £4-1-0



TYPE CLG

with interleaved plates

These accumulators are built up in containers of strong clear glass through which the interior can be very easily examined. They are absolutely leak-proof and fire-proof. The new improved plate construction calls for special attention; $\frac{1}{4}$ " positive plates are interleaved with $\frac{1}{8}$ " negatives, the whole insulated with corrugated ebonite separators. Moulded plate supports are fitted in the bottom of the container, providing ample mud space and there is a liberal allowance all round for the circulation of acid. The moulded ebonite lid is fitted with an extra large Porcelain vent. Large coloured terminals indicate polarity and the acid level is clearly moulded on the container.

All-metal, non-corrosive carriers are fitted, free of charge. These outstanding features all contribute to the popularity of the Oldham C.L.G.

A size to suit all receivers.

Type	Voltage	Actual capacity	Dimensions—ins			Wght—lbs.		PRICE EACH £ s. d.
			L.	W.	H.	With out acid	With acid	
CLG 2	2	26	2 1/8	5 1/8	7 1/8	5 1/2	6 1/2	8 9
CLG 3	3	40	3 1/8	5 1/8	7 1/8	7	8 1/2	10 9
CLG 4	4	53	3 3/8	5 1/8	7 1/8	8 1/2	10 1/2	12 9
CLG 5	5	66	4 1/8	5 1/8	7 1/8	10 1/2	12 1/2	14 9
CLG 6	6	80	5 1/8	5 1/8	7 1/8	12	14 1/2	16 9
2CLG 2	4	26	4 1/8	5 1/8	7 1/8	11	13	17 6
2CLG 3	4	40	6 1/8	5 1/8	7 1/8	14	16 1/2	1 1 6
2CLG 4	4	53	7 1/8	5 1/8	7 1/8	17	21	1 5 6
2CLG 5	4	66	9	5 1/8	7 1/8	20 1/2	25	1 9 6
2CLG 6	4	80	10 5/8	5 1/8	7 1/8	24	29 1/2	1 13 6
3CLG 2	6	26	7 1/8	5 1/8	7 1/8	16 1/2	19 1/2	1 6 3
3CLG 3	6	40	9 1/8	5 1/8	7 1/8	21	24 1/2	1 12 3
3CLG 4	6	53	11 1/8	5 1/8	7 1/8	25 1/2	31 1/2	1 18 3
3CLG 5	6	66	13 1/8	5 1/8	7 1/8	30 1/2	37 1/2	2 4 3
3CLG 6	6	80	15 1/8	5 1/8	7 1/8	36	44 1/2	2 10 3

* At 90 hour rate of discharge.

Oldham & Son, Ltd., Denton, Manchester.

Telephone: Denton 2431 (4 lines). Telegrams: "Oldhams" Denton, Manchester.

London: Bush House, W.C.2, and 40, Wicklow St., W.C.1. Glasgow: 200, St. Vincent St., C2.



Free Carriers with all Models.



O 75

TYPE	Weight Dry lbs. ozs.	Weight with acid lbs. ozs.
O 25	3 4	3 15
O 50	5 9 1/2	7 15 1/2
O 75	8 1 1/2	11 6

SLOW DISCHARGE TYPES

Although the Lively "O" series has given great satisfaction to all users it has been subjected to still more improvements for the coming season. The Lively "O" types are good value—they are durable and economical. The three Accumulators illustrated are capable of spreading a steady output over very long periods without risk of sulphation or damage to plates, yet can be recharged quickly instead of requiring the normal 40 hrs.

This great advantage is due to the plate construction which is remarkable for the special Oldham-USL features—extra heavy negatives—twin positive—large assembly surface area—small grid construction.

O 25



Lively "O" Accumulators are also assembled in strong glass jars, they have large coloured terminals and are fitted with durable carrying handles—free of charge.



O 50

O 25 (Green label)

Capacity 25 ampere hours (at 1,000 h. ur rate) fitted with all-metal carrier

5/6

O 50 (Red Label)

Capacity 50 ampere hours (at 1,000 hour rate) fitted with all-metal carrier

9/-

O 75 (Blue label)

Capacity 75 ampere hours (at 1,000 hour rate) fitted with all-metal carrier

12/6

With Lively "O" Accumulators you get more listening and less recharging.

How to choose the right Accumulator for your Set

BELOW is a table that will help you to decide the correct type of accumulator for your Receiver. The left-hand column, "Filament Current," is the total current of all the valves in your Set. For example, if you use a 3-valve Receiver with a screened grid valve taking .15 amp., a detector .1 amp., and a power valve .15 amp., your filament will be:—

$$.15 + .1 + .15 = .4 \text{ amp.}$$

Filament Current of Valves	'O' Type Accumulator to use up to 20 hours use per week.	Over 20 hours use per week.
.3 amp.	025	CLG2
.5 amp.	050	CLG3
.7 amp.	075	CLG4
over .7 amp.		CLG5 or CLG6

Type CLG

This type should be used with Sets taking .3 amp. or over that are used for 20 hours a week or more.

Type	Volts	Actual Capacity	Price
CLG2	2	26	8/9
CLG3	2	40	10/9
CLG4	2	53	12/9
CLG5	2	66	14/9
CLG6	2	80	16/9

Celluloid Types

These are fitted with standard Oldham USL plates.

Type	Volts	Actual Capacity	Price
CL1	2	13	8/6
CL2	2	26	9/3
CL3	2	40	11/3
CL4	2	53	13/3
CL5	2	66	15/3
CL6	2	80	17/3

Unspillable Suitcase Types

This type is specially designed for use in suitcase-type Portable Sets.

Type	Volts	Actual Capacity	Price
PYV4	2	12	9/0
PXV3	2	20	13/0

Jelly Acid Types

Solid electrolyte Accumulators for use in all types of Portable Receivers.

JLV4	2	16	11/6
JLV6	2	24	13/0
JLV7	2	28	14/6
JCV3	2	30	13/0
JSMV3	2	14	9/0
JSMV4	2	18	10/0
JSMV5	2	23	11/0
JSMV6	2	28	12/0

The above model is specially suitable for use with Kolster-Brandes Receivers.

Transportable Types

Unspillable Accumulators for use in Transportable Receivers.

Type	Volts	Actual Capacity	Price
TCV3	2	30	11/6
SMV6	2	20	11/6
TZV4	2	28	12/0

OLDHAM & SON LTD.

Denton, Manchester

Established 1865

Telephone: Denton 2431 (4 lines).

Telegrams: Oldhams, Denton, Manchester.

Also at London, Glasgow, Belfast & Dublin

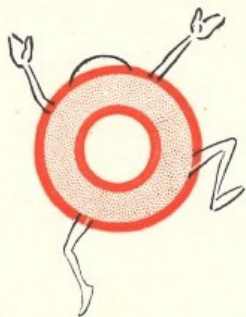
Contractors to British and Foreign Governments, Railway Companies, etc.

Your Radio needs the

Lively 'O'!



See overleaf for prices of the 'O' Series.




WHY YOU SHOULD PUT

The *Lively 'O'*

INTO YOUR

RADIO



TO attempt to save money by buying low-priced batteries or accumulators is false economy. "Cheap" batteries are invariably the most expensive in the end. They do not last. And, because they cannot stand up to their work they mar the performance of your Set.

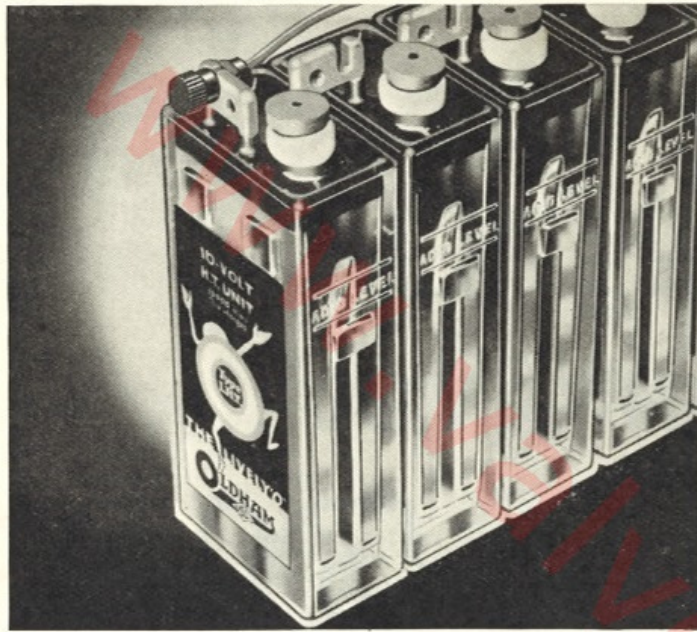
It will pay you over and over again to buy Lively 'O' Batteries and Accumulators. Their outstanding quality is a guarantee of long and dependable service. Although they cost only a few pence more, they represent far greater value for money than the so-called "cheap" battery.

Not only will Lively 'O' Batteries and Accumulators save you money, but, because of their liveliness, their vim and vigour they will put new life into your Wireless.

Made at Denton, Manchester, by Oldham USL, the Lively 'O' Batteries and Accumulators are unbeatable in quality. You cannot get better value for money or more reliable service.

The *Lively 'O'*

WIRELESS BATTERIES AND ACCUMULATORS



THE *Lively 'O'* AIR-SPACED H.T. ACCUMULATOR

BECAUSE it can be recharged in exactly the same way as the L.T. type, the H.T. Accumulator is very economical to use.

The old "smooth-top" H.T. Accumulator needs frequent recharging—electrical leakage continuously creeping along its unbroken top will waste away its power faster than even a big set will use it.

With the Lively 'O' H.T. Accumulator this waste is prevented by its "Air-spaced" cell construction. As a result it needs *less* recharging than any other make.

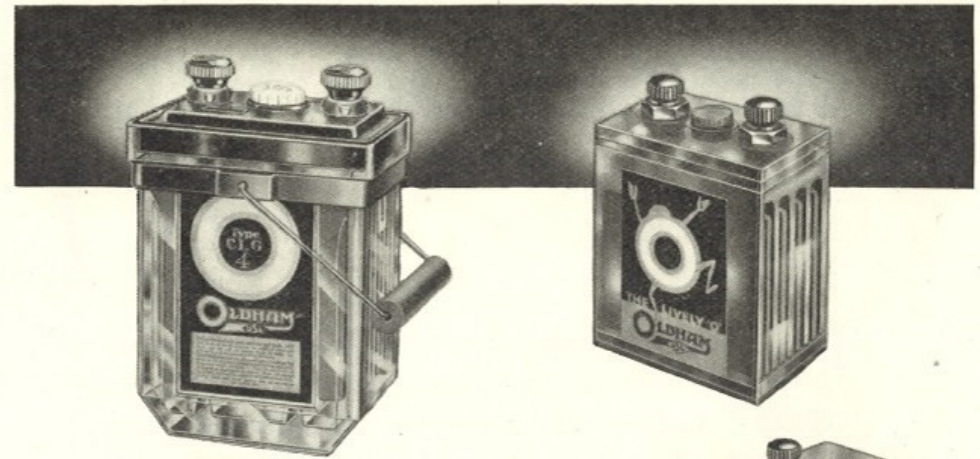
Remember, too, that in addition to eliminating cell-to-cell leakage, Lively 'O' "Air-spaced" construction ensures constant voltage. It guarantees a steady, abundant supply of pure H.T. current that will coax the very best from your receiver.

You will see, therefore, that the Lively 'O' "Air-spaced" H.T. Accumulator ensures firstly, a definite saving in money due to less frequent recharging and secondly better results due to the maintenance of its voltage.

TWO TYPES

Standard 10 volt Unit (2,750 milliamps.) .. 5/6

Extra large capacity (5,500 milliamps.) per 10 volt Unit .. 6/9



OTHER *Lively 'O'* ACCUMULATORS



THE Lively 'O' range of Accumulators covers every possible need. A full list of types and prices is given overleaf.

Remember that the vigour and energy, the pep and power of the Lively 'O' is available in every Oldham USL Accumulator.

The secret of the Lively 'O''s

amazing energy lies in the Oldham USL plates.

Combining outstanding electrical efficiency with exceptional mechanical strength Oldham USL accumulator plates are everywhere known for their efficiency and reliability.

When next you need a battery or an accumulator—ask for a Lively 'O'.

BRITISH MADE
BY

OLDHAM
USL





The Famous 'O' Series

O25 (Green Label).
25 amp. hrs. (actual),
for 2-valve Sets 5/6

O50 (Red Label).
50 amp. hrs. (actual),
for 3-valve Sets 9/-

O75 (Blue Label).
75 amp. hrs. (actual),
for 4-valve and larger
Sets - - - 12/6



THE Lively 'O' H.T. BATTERY



THE new series of 'O' type accumulators offers greater value for money than ever before. Among the many improvements is an Automatic Discharge Indicator—a simple and reliable device—one red ball. When the ball sinks it is time to recharge. Other important features are: polished, easy-to-keep-clean top—new, sulphation-proof terminals—identification panel to hold card with your name and address—and remember, all these advantages are additional. Lively 'O' quality is unchanged—supreme. No other accumulator will put such vim and vigour into your Wireless.

THERE'S even more pep, more liveliness and longer life in the new Lively 'O' Dry H.T.'s. Outwardly, the new batteries are unchanged. The difference is *inside*. The already high quality has been still further improved. It is literally brim full of eager energy—ready to give your Set the generous supply of power that it needs. Right from the first Lively 'O' H.T. Batteries have been built up to a standard. As a result the Lively 'O' now stands supreme above all Dry H.T.'s—in power—in liveliness—in long-life. Next time ask your Dealer for a Lively 'O'—Britain's finest Dry H.T.

RED BAND			
(Oversize cells)			
Normal Capacity			
66 volts	..	..	8/-
99 "	..	..	12/6
108 "	..	..	14/-
120 "	..	..	15/6
Triple Capacity			
64 volts	..	..	13/-
120 "	..	..	24/-
Grid Bias			
9 volts	..	..	1/-
16½ "	..	..	1/9
GREEN BAND			
(Standard Cells)			
60 volts	..	..	5/6
66 "	..	..	6/-
99 "	..	..	9/-
120 "	..	..	11/-