

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
APRILLA			
50cc			
Area 51, ET, Mc Gulliver	LYB4LB	504011002	CB4L-B
Habana H20. Majita	LYB4LB	504011002	CB4L-B
Rally 50 RS 50 RX50, Replica	LYB4LB	504011002	CB4L-B
Scarabeo 50, Pegaso	LYB4LB	504011002	CB4L-B
Scarabeo Deich, SR Deitch	LYTX5LBS	504012003	YTX5L-BS
SR 50	LYB4LB	504011002	CB4L-B
100cc			
Scarabeo 1002T	LYTX5LBS	504012003	YTX5L-BS
125cc			
Atlantic	LYB12ALA2	512013012	CB12AL-A2
Classic ETX125	LYB9B	509014008	CB9-B
Habana	LYTX9BS	508012008	YTX9-BS
Leonardo	LYB12ALA2	512013012	CB12AL-A2
Pegaso Rally Red Rose, RS125	LYB9B	509014008	CB9-B
Scarabeo	LYB12ALA2	512013012	CB12AL-A2
SR125	LYTX7LBS	506014005	YTX7L-BS
150cc			
Leonardo	LYTX9BS	508012008	YTX9-BS
Scarabeo 150	LYB12ALA2	512013012	CB12AL-A2
SR150	LYTX7LBS	506014005	YTX7L-BS
200cc			
Atlantic Leonardo Scarabeo	LYB12ALA2	512013012	CB12AL-A2
250cc			
ETX 250	LYB14LA2	514011014	CB14L-A2
Leonardo	LYB12ALA2	512013012	CB12AL-A2
RS250	LYB4LB	504011002	CB4L-B
350cc			
ETX 350 (E-start)	LYB14LA2	514011014	CB14L-A2
500cc			
Atlantic 500	LYB14B2	514014014	CB14-B2
Atlantic 500 2006-	LYTX12BS	510012009	YTX12-BS
Scarabeo 500	LYB14LA2	514011014	CB14L-A2
Scarabeo 500 2008-	LYTX12BS	510012009	YTX12-BS
650cc			
Moto Pegaso 650	LYB12ALA2	512013012	CB12AL-A2
Pegaso Strada	LYTX12BS	510012009	YTX12-BS
Stark	LYB14LA2	514011014	CB14L-A2
1000cc			
ETV Caponard 1000	LYTX14BS	512014010	YTX14-BS
RST1000 Mille R Futura Tuono R	LYTX12BS	510012009	YTX12-BS
RSV Mille	LYTX14BS	512014010	YTX14-BS
RSV 1000 Mille R SP	LYTX12BS	510012009	YTX12-BS
BENELLI			
125cc			
Adiva	LYTX14BS	512014010	YTX14-BS
Velvet	LYTX9BS	508012008	YTX9-BS
150cc			
Adiva	LYTX14BS	512014010	YTX14-BS
Velvet	LYTX9BS	508012008	YTX9-BS
250cc			
Velvet	LYTX12BS	510012009	YTX12-BS
500cc			
LS, 4 Zyl	LYB14LA2	514014014	CB14L-A2
900cc			
Sei, 900 6 cylinder	LY60N30LA	530030030	C60-N30L-A
BETAMOTOR			
50cc			
Adventure Ark Eikon	LYB4LB	504011002	CB4L-B
Eikon 2001on	LYTX9BS	508012008	YTX9-BS
125-150cc			
Eikon	LYTX9BS	508012008	YTX9-BS
600cc			
YB9-600	LYB12ALA2	512013012	CB12AL-A2
750cc and 900cc			
SB3 750. HS2900	LYB14LA2	514011014	CB14L-A2

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
BETAMOTOR CONTINUED			
1000cc			
YB10 Dieci	LYTX14BS	512014010	YTX14-BS
YB6	LYB14LA2	514011014	CB14L-A2
BMW			
600cc			
60-5	LMB12V20P	519901017	YSS1913
R 60/6, R60/7	LY60N30LA	530030030	C60-N30L-A
R 60S	LYB14LA2	514011014	CB14L-A2
650cc			
F650CS, S	LYB12ALA2	512013012	CB12AL-A2
R65 G/S	LMB12V20P	519901017	YSS1913
750cc			
K75	LY60N30LA	530030030	C60-N30L-A
R75/S	LMB12V20P	519901017	YSS1913
800cc			
R80ET, R, N, TN	LY60N30LA	530030030	C60-N30L-A
R80 R80ST, R80/7	LMB12V20P	519901017	YSS1913
850cc			
R 850	LMB12V20P	519901017	YSS1913
900cc			
R90/6, R90S	LY60N30LA	530030030	C60-N30L-A
R90ST	LMB12V20P	519901017	YSS1913
1000cc			
K1, K100, R100	LY60N30LA	530030030	C60-N30L-A
1100cc			
K1100LI, RS, R1100 R	LMB12V20P	519901017	YSS1913
1150cc			
R1150	LMB12V20P	519901017	YSS1913
1200cc			
K1200S (167PS), R1200GS,	LYTX14BS	512014010	YTX14-BS
R1200RS	LYTX14BS	512014010	YTX14-BS
K1200 (130PS), R1200 C	LMB12V20P	519901017	YSS1913
BSA			
6 volt		007014003	B39-6
12 volt	LYB9B	509015008	CB9-B
BUELL			
500 Blast	LYTX14BS	512014010	YTX14-BS
M2 Cyclone	LYGZ20HLBS		YGZ20HL-BS
RR1000	LYTX20BS	518902026	YTX20-BS
S3, S3T	LYGZ20HLBS		YGZ20HL-BS
XB12S Lightning	LYTX14BS	512014010	YTX14-BS
X1 Lightning	LYGZ20HLBS		YGZ20HL-BS
CAGIVA			
125cc			
Cucciolo, Planet, Supercity	LYB9B	509014008	CB9-B
Roadster, WRE125	LYTX5LBS	504012003	YTX5L-BS
650cc			
Raptor	LYTX12BS	510012009	YTX12-BS
1000cc			
Gran Canyon	LYTX14BS	512014010	YTX14-BS
Navigator	LYB16B	519012019	CB16-B
Raptor	LYTX12BS	510012009	YTX12-BS
DUCATI			
600cc			
600 Monster 94-99	LYB16ALA2	516016012	CB16AL-A2
600 Monster 2000 on	LMB12V20P	519901017	YSS1913
M Dark	LYT12B4	512901019	YT12B-4
620cc			
620 Monster (63 PS)	LYT12B4	512901019	YT12B-4
650cc			
650 Alazzurra	LYB14LA2	514011014	CB14L-A2
750cc			
750 Desmoimola	LYB12AA	512011012	CB12A-A
750 GT (E-start), Laguna Seca	LY60N30LA	530030030	C60-N30L-A

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
DUCATI CONTINUED			
750 Monster, Supersport	LYB16ALA2	516016012	CB16AL-A2
Monster, Sport, SS 1E 2001 on	LYT12B4	512901019	YT12B-4
800cc			
Monster S	LYT12B4	512901019	YT12B-4
851cc			
851	LYB16ALA2	516016012	CB16AL-A2
851 Superbike	LYB16B	519012019	CB16-B
860cc			
860 Supersport	LYB12ALA2	512013012	CB12AL-A2
888cc			
888	LYB16ALA2	516016012	CB16AL-A2
900cc			
900 Monster, Police, SL	LYB16ALA2	516016012	CB16AL-A2
Monster, M/MS Metallic 2000 on	LYT12B4	512901019	YT12B-4
900 Sport, M1E 2 Dark 2	LYT12B4	512901019	YT12B-4
900 SD, SSD, Darmah, Desmo	LY60N30LA	530030030	C60-N30L-A
900 Superlight, Supersport	LYB16ALA2	516016012	CB16AL-A2
Sport, SS1E 2001 on	LYT12B4	512901019	YT12B-4
916cc			
Monster S4, Sport Touring 4	LYT12B4	512901019	YT12B-4
944cc			
ST2	LYB16ALA2	516016012	CB16AL-A2
ST4/S/S ABS	LYT12B4	512901019	YT12B-4
992cc			
ST3	LYT12B4	512901019	YT12B-4
996cc			
Biposto/SPS	LYB16ALA2	516016012	CB16AL-A2
Monoposto, ST4S	LYT12B4	512901019	YT12B-4
998cc			
Monoposto/S/Biposto	LYT12B4	512901019	YT12B-4
999cc			
999	LYT12B4	512901019	YT12B-4
1000cc			
Monster S (94PS)	LYT12B4	512901019	YT12B-4
1098cc			
Hypermotard 1100S,	LYTX12B5	510012009	YTX12-BS
Superbike, Tricolore	LYTX12B5	510012009	YTX12-BS
GAS GAS			
Pampera	LYTX4LBS	503014003	YTX4L-BS
HARLEY DAVIDSON			
883, 1200	LYGZ20HLBS		YGZ20HL-BS
XL (E-Start)	LYTX20LBS	518901026	YTX20L-BS
VRSC V-Road	LYTX14BS	512014010	YTX14-BS
XL1200	LYTX20LBS	518901026	YTX20L-BS
FLHR Road King, FLHT	LY50N18LA2	520012020	C50-N18L-A2
FLST Classic	LYB16LB	519011019	CB16L-B
FLST Series, FXD Series	LYTX20LBS	518901026	YTX20L-BS
FXD Softail	LYGZ20HLBS		YGZ20HL-BS
FXR Series, FXST Softail	LYB16B	519012019	CB16-B
FLST Series, FXD Series, FXST	LYTX20LBS	518901026	YTX20L-BS
FXD Series FXST,FLST	LYTX20LBS	518901026	YTX20L-BS
XL, XLH Sportster	LYGZ14HLBS		YGZ14HL-BS
HONDA			
50cc			
Bite, Dio Z4, Giorno, Giorcub,	LYTZ7S	507902011	YTZ7S
CHF50 II SP	LYTZ7S	507902011	YTZ7S
QR50, SK50, X8-R, ZX50, Gorilla	LYTR4ABS	503903004	YTR4A-BS
AF29 (Vision), Little Cub	LYT4LBS	503014003	YS12-4L-BS
Gyro X, Gyro Up, Canopy	LYTX7LBS	506014005	YTX7L-BS
Julio, Lead, NPS50, Ruckus	LYTZ7S	507902011	YTZ7S
Shadow	LYTX5LBS	504012003	YTX5L-BS
NB50 Melody, NH50, MS, N50	LYB4LB	504011002	CB4L-B
PK50, SA50, Vision, SC01	LYT4LBS	503014003	YS12-4L-BS
Sky Deluxe, Dax, Vetro, ZB50 J, P	LYT4LBS	503014003	YS12-4L-BS
70cc			
C70CMP, C70W,	LYB4LB	504011002	CB4L-B

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
HONDA CONTINUED			
C70C, CF70	LYB4LB	504011002	CB4L-B
ST70	LYTX4LBS	503014003	YTX4L-BS
80cc			
CH80 Elite	LYTX5LBS	504012003	YTX5L-BS
90cc			
C90CW	LYB4LB	504011002	CB4L-B
Lead 90, Shadow, TH90T	LYT4LBS	503014003	YS12-4L-BS
100cc			
NF100,M, SH100	LYTX5LBS	504012003	YTX5L-BS
110cc			
NT110MV, MV110MM	LYB4LB	504011002	CB4L-B
125cc			
CBR125,	LYT6B3		YT6B-3
CHA125T	LYTX9BS	508012008	YTX9-BS
City Fly	LYTX5LBS	504012003	YTX5L-BS
Dylan	LYTX7LBS	506014005	YTX7L-BS
FES 125, Pantheon	LYTX7LBS	506014005	YTX7L-BS
NE5125, Shadow	LYTX7LBS	506014005	YTX7L-BS
Spacy 125	LYTZ12S	509901020	YTZ12S
XER125R	LYTX7ABS	506015005	YTX7A-BS
VT125C, XV125V	LYTZ7S	507902011	YTZ7S
150cc			
FES150	LYTX9BS	508012008	YTX9-BS
FES 150 2003-	LYTX7LBS	506014005	YTX7L-BS
NE5150, Z	LYTX7LBS	506014005	YTX7L-BS
XL150	LYTX5LBS	504012003	YTX5L-BS
200cc			
XR200	LYTX5LBS	504012003	YTX5L-BS
230cc			
CRF230F	LYTX5LBS	504012003	YTX5L-BS
XL230	LYTZ7S	507902011	YTZ7S
250cc			
CA250, CB250 Nighthawk	LYTX7LBS	506014005	YTX7L-BS
CM250T	LYB12AA	512011012	CB12A-A
CMX250C Rebel, C3	LYTX7LBS	506014005	YTX7L-BS
FES250V	LYTX12BS	510012009	YTX12-BS
Foresight 250, Forza 250, Jazz,	LYTZ12S	509901020	YTZ12S
NS250S	LYTZ12S	509901020	YTZ12S
Freeway 250	LYTX12BS	510012009	YTX12-BS
400cc			
CB400 Super Four	LYTZ10S	508901015	YTZ10S
NV400C	LYTX9BS	508012008	YTX9-BS
NV400 DC, NV 400 Steed	LYTZ10S	508901015	YTZ10S
NV 400 DC Shadow	LYTX14BS	512014010	YTX14-BS
Silver Wing 400	LYTZ12S	509901020	YTZ12S
VFR400 R, R2, M	LYTX7ABS	506015005	YTX7A-BS
500cc			
CB500,R,S,T	LYTX9BS	508012008	YTX9-BS
600cc			
CBF Hornet/S, CBR 600 F4i	LYTZ10S	508901015	YTZ10S
CB600F	LYTZ7S	507902011	YTZ7S
CB600F 2007-	LYTZ10S	508901015	YTZ10S
CBR600F Hornet, CBR600 F41	LYTZ10S	508901015	YTZ10S
CBR600 F2, F3, Hurricane	LYTX9BS	508012008	YTX9-BS
Silver Wing	LYTZ12S	509901020	YTZ12S
VT600	LYTX9BS	508012008	YTX9-BS
XL600V (T)	LYB12AA	512011012	CB12A-A
650cc			
FX650	LYTX9BS	508012008	YTX9-BS
NTV650V 1998	LYTX9BS	508012008	YTX9-BS
NTV650V 2001 on	LYTZ10S	508901015	YTZ10S
SCR650, SLR650	LYTX9BS	508012008	YTX9-BS
XL650, V	LYTZ12S	509901020	YTZ12S
680cc			
DN-01	LYTZ14S	511902023	YTZ14S
750cc			
CB750 Nighthawk, CB750II	LYB14AA2	514012014	CB14A-A2
NR 750	LYTX12BS	510012009	YTX12-BS
NV750	LYTX14BS	512014010	YTX14-BS

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
HONDA CONTINUED			
VF750C Magna	LYTX9BS	508012008	YTX9-BS
VF750C CD C2 D Magna	LYTX12BS	510012009	YTX12-BS
V750DC CD2 CDA Shadow Deluxe	LYTX14BS	512014010	YTX14-BS
V750DC A B Shadow Spirit	LYTZ14S	511902023	YTX14S
XR750 Africa Twin, XRZ750 (T)	LYTX14BS	512014010	YTX14-BS
800cc			
VFR 800	LYTZ12S	509901020	YTX12S
VFR800P	LYTZ14S	511902023	YTX14S
PC800 Pacific Coast,	LYTX12BS	510012009	YTX12-BS
VFR800 FI before 99,	LYTX12BS	510012009	YTX12-BS
Interceptor to 01	LYTX12BS	510012009	YTX12-BS
VFR800 FI Interceptor 02 on	LYTZ10S	508901015	YTX10S
900cc			
CBR900F, CBR RR Fireblade 00 on	LYTZ10S	508901015	YTX10S
CBR900R, RR Fireblade 92-98	LYTX9BS	508012008	YTX9-BS
919cc			
CB900F	LYTZ10S	508901015	YTX10S
929cc			
CBR929R, RR	LYTZ10S	508901015	YTX10S
954cc			
CBR954RR	LYTZ10S	508901015	YTX10S
1000cc			
CB1000	LYTX12BS	510012009	YTX12-BS
CB1000C Custom	LYB12AL2	512013012	CB12AL-A2
CBR1000, F, Hurricane	LYB14B2	514014014	CB14L-A2
CBR1000RR Fireblade 2004-07	LYTZ10S	508901015	YTX10S
CBR1000RR Fireblade 2007-	LYTZ7S	507902011	YTX7S
CBX1000 Super Sport	LY50N18LA2	520012020	C50-N18L-A2
GL1000LTD GoldWing LE	LY50N18LA2	520012020	C50-N18L-A2
VTR1000 F Firestorm 97-00	LYTX12BS	510012009	YTX12-BS
VTR1000 F Firestorm 01 on	LYTZ12S	509901020	YTX12S
VTR1000, VFR1000SP	LYTZ12S	509901020	YTX12S
XL1000V	LYTX14BS	512014010	YTX14-BS
1100cc			
CBR1100XX 97-00	LYTX12BS	510012009	YTX12-BS
CBR1100XX 01-03	LYTZ12S	509901020	YTX12S
ST1100 Pan European ABS-TCS	LYTX14BS	512014010	YTX14-BS
1300cc			
CB1300 Super Four, ST1300	LYTZ14S	511902023	YTX14S
CB1300DC X4 Type LD	LYTX14BS	512014010	YTX14-BS
YTX1300S Retro	LYTX14BS	512014010	YTX14-BS
STX1300	LYTZ14S	511902023	YTX14S
1500cc			
GL1500 GoldWing	LY50N18LA2	520012020	C50-N18L-A2
GL1500 Valkyrie	LYTX14BS	512014010	YTX14-BS
1800cc			
GL1800 GoldWing, R Retro	LYTX20LBS	518901026	YTX20L-BS
GL1800 2008-	LMB12V20L		YS12-20L-BS
HYOSUNG			
50cc			
SB Super Cab	LYTX4LBS	503014003	YTX4L-BS
100cc			
Cab100, EZ100	LYTX4LBS	503014003	YTX4L-BS
KAWASAKI			
110cc			
KSR110	LYTX4LBS	503014003	YTX4L-BS
125cc			
BN125	LYB9B	509014008	CB9-B
250cc			
BJ250, A2, A3, C3	LYTX9BS	508012008	YTX9-BS
EX250-F, Ninja, 95-03, 250TR	LYTX7LBS	506014005	YTX7L-BS
EX250 Ninja 250R 2008-	LYTX7ABS	506015005	YTX7A-BS
KL250 Super Sherpa, D Tracker	LYTX7LBS	506014005	YTX7L-BS
KLX250 ES, G1, G2, LX250E	LYTX7LBS	506014005	YTX7L-BS
400cc			
EN400, FX400R	LYB12AA	512011012	CB12A-A
EX400	LYB14LA2	514011014	CB14L-A2

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
KAWASAKI CONTINUED			
KLX400R, SR	LYT7B4	507901012	YTX7B-4
VN400A, ZR400C	LYTX12BS	510012009	YTX12-BS
ZR400 D Xanthus, ZRX, II	LYTX9BS	508012008	YTX9-BS
450cc			
KLX450R 2008-	LYTZ7S	507902011	YTX7S
500cc			
EN500C, C1, Vulcan	LYB12ALA2	512013012	CB12AL-A2
ER5	LYTX12BS	510012009	YTX12-BS
EX500-D Ninja, GPZ500 S A1	LYB14LA2	514011014	CB14L-A2
KLE500	LYTX12BS	510012009	YTX12-BS
600cc			
ZX 600E, G, H, ZZR Ninja	LYTX12BS	510012009	YTX12-BS
ZX-6R	LYTX9BS	508012008	YTX9-BS
ZX-6R F1, F2	LYTX12BS	510012009	YTX12-BS
ZZR600	LYTX12BS	510012009	YTX12-BS
636cc			
ZX-6R (ZX636A)	LYTX9BS	508012008	YTX9-BS
650cc			
EJ650	LYTX14BS	512014010	YTX14-BS
ER6, F, N, ER650-A, B, KLE650-A, B	LYTX12BS	510012009	YTX12-BS
KL/KLR650 A1-A2, B1-B2, C1-C2	LYB14LA2	514011014	CB14L-A2
KL650 (C1-C2)	LYTX9BS	508012008	YTX9-BS
Ninja 650R 2006-08	LYTX12BS	510012009	YTX12-BS
W650	LYTX14BS	512014010	YTX14-BS
750cc			
750L ZX7	LYTX9BS	508012008	YTX9-BS
GPX750R, GPZ750, GT750	LYB14LA2	514011014	CB14L-A2
KZ750-L Ninja	LYTX9BS	508012008	YTX9-BS
VN750-A	LYB14LA2	514011014	CB14L-A2
ZR750, ZX-7R (P1), ZXR750 J, L	LYTX12BS	510012009	YTX12-BS
ZXR750R, K, M, Z750	LYTX9BS	508012008	YTX9-BS
800cc			
VN800 A, A1, B1 Vulcan	LYTX14BS	512014010	YTX14-BS
900cc			
GPZ900R	LYB14LA2	514011014	CB14L-A2
VN900, B, C, D, Vulcan	LYTX12BS	510012009	YTX12-BS
ZX9R	LYTX12BS	510012009	YTX12-BS
ZX-9R, F, Ninja	LYTX9BS	508012008	YTX9-BS
1000cc			
KZ1000, ZG1000A Concours	LYTX20LBS	518901026	YTX20L-BS
ZX1000A Concours	LYTX20LBS	518901026	YTX20L-BS
1100cc			
GPZ1100 E1-E2, Ninja (ZX-11)	LYTX14BS	512014010	YTX14-BS
ZRX1100, ZX1100C-G	LYTX14BS	512014010	YTX14-BS
ZX1100-D Ninja, ZX11, ZX1100E	LYTX14BS	512014010	YTX14-BS
ZZR1100EU, ZXT10D0	LYTX14BS	512014010	YTX14-BS
1200cc			
ZG1200 Voyager II	LY50N18LA2	520012020	C50-N18L-A2
ZRX 1220R, ZX-A1, ZX-12R, ZZR	LYTX14BS	512014010	YTX14-BS
1300cc			
ZGT1300A	LY50N18LA2	520012020	C50-N18L-A2
1400cc			
1400GTR, ZG1400, ZX Ninja	LYTX14BS	512014010	YTX14-BS
1500cc			
VN 1500 F, H, G1, Vulcan, Nomad	LYTX16BS	514902022	YTX16-BS
VN 1500 J1 L, N,	LYTX16BS	514902022	YTX16-BS
VN1500SE	LY50N18LA2	520012020	C50-N18L-A2
1600cc			
VN1600 -A, B Vulcan, D, Nomad	LYTX16BS	514902022	YTX16-BS
KTM			
250cc			
EXC 2005-	LYTX4LBS	503014003	YTX4L-BS
EXC-F 2005-	LYTX5LBS	504012003	YTX5L-BS
450cc			
MXC Racing	LYTX5LBS	504012003	YTX5L-BS
520/525cc			
EXC, MXC, Racing	LYTX5LBS	504012003	YTX5L-BS
620/640cc			

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
KTM CONTINUED			
Adventure, LS-E, Adventurer	LYTX9BS	508012008	YTX9-BS
SXC	LYTZ10S	508901015	YTZ10S
690cc			
Duke, Eduardo, Supermoto	LYTZ10S	508901015	YTZ10S
950-1190cc			
All models	LYTZ14S	511902023	YTZ14S
KYMCO			
50cc			
Calypso, Cobra, Cross	LYTX5LBS	504012003	YTX5L-BS
CX, Curio, DJ, DJW, DJX, DJY	LYT4LBS	503014003	YS12-4L-BS
Fever ZX, People, Top Boy	LYTX5LBS	504012003	YTX5L-BS
K12, KB, Sniper, DD	LYT4LBS	503014003	YS12-4L-BS
80cc			
Filly 80	LYTX5LBS	504012003	YTX5L-BS
100cc			
AS, KB,	LYTX7ABS	506015005	YTX7A-BS
125cc			
B & W, Ego, Calypso, Dink,	LYTX9BS	508012008	YTX9-BS
Heroism, Vivio	LYTX9BS	508012008	YTX9-BS
Fox Hunt, Jockey, People, Zing	LYTX7ABS	506015005	YTX7A-BS
150cc			
B & W, Dink, Heroism, Spacer,	LYTX9BS	508012008	YTX9-BS
Vivio	LYTX9BS	508012008	YTX9-BS
Fox Hunt, People, Zing	LYTX7ABS	506015005	YTX7A-BS
250cc			
B & W, Ego, Dink, Super 9	LYTX12BS	510012009	YTX12-BS
LAVERDA			
650cc			
Ghost, Strike	LYB14LA2	514011014	CB14L-A2
668cc			
Diamante, Ghost	LMB12V20P	519901017	YS51913
750cc			
Carenata, Formula	LMB12V20P	519901017	YS51913
MALAGUTI			
50cc			
Centro, Colors, CR1, Crossover EL	LYB4LB	504011002	CB4L-B
125-250cc			
Ciak, Madison	LYB9B	509014008	CB9-B
MOTO GUZZI			
750cc			
Breva	LYB14LA2	514011014	CB14L-A2
Nevada	LYTX20LBS	518901026	YTX20L-BS
S750	LY60N30LA	530030030	C60-N30L-A
1000cc			
1000NT, V1000, Le Mans III, IV	LY60N30LA	530030030	C60-N30L-A
California II, III, SP, V10 Centauro	LY60N30LA	530030030	C60-N30L-A
1100cc			
Quota, V11, Café Sport (91PS)	LY60N30LA	530030030	C60-N30L-A
1100 Sport, California EV	LY60N30LA	530030030	C60-N30L-A
NORTON			
750cc			
Commando 750	LYB9B	509014008	CB9-B
850cc			
Commando 850	LYB14LA2	514011014	CB14L-A2
PEUGEOT			
50cc			
50 SV Blue Star, Buxy, Fox, Rapido	LYB4LB	504011002	CB4L-B
SC, Squab, SV, Trekker, Zenith	LYB4LB	504011002	CB4L-B
Looxar, Speedake, Speedfight 2, ST	LYB4LB	504011002	CB4L-B
100cc			
Elyseo	LYB9B	509014008	CB9-B
Looxar, Trekker	LYTX5LBS	504012003	YTX5L-BS
Speedfight, Vivacity	LYTX5LBS	504012003	YTX5L-BS

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
PEUGEOT CONTINUED			
105cc			
Ciclomotore	LYB4LB	504011002	CB4L-B
150cc			
Elyseo	LYB12ALA2	512013012	CB12AL-A2
250cc			
ST/SV	LYTX12BS	510012009	YTX12-BS
PIAGGIO			
25-50cc			
Free, FL Velofax, Bullet, Cobra,	LYB4LB	504011002	CB4L-B
Injection	LYB4LB	504011002	CB4L-B
Liberty, NRG, Quartz, TPH50	LYB4LB	504011002	CB4L-B
Bullet, Eaglet, GSA	LYB4LB	504011002	CB4L-B
125cc			
Diesis	LYTX4LBS	503014003	YTX4L-BS
MP3	LYTX12BS	510012009	YTX12-BS
Liberty, Nexus, Runner 125VC 4T	LYTX12BS	510012009	YTX12-BS
Vespa ET 4	LYTX9BS	508012008	YTX9-BS
X7	LYTX12BS	510012009	YTX12-BS
X9, Apache CX, Arizona, Cougar	LYB9B	509014008	CB9-B
XR1/XR2, Freestyle, Hexagon	LYB9B	509014008	CB9-B
Vespa PX E	LYB9B	509014008	CB9-B
150cc			
EX150, Hexagon, Liberty	LYB9B	509014008	CB9-B
200cc			
Arizona, Cosa, PX, E, Lusso	LYB9B	509014008	CB9-B
Beverly, Liberty, Runner	LYTX12BS	510012009	YTX12-BS
250cc			
MP3, Nexus, Runner, X7 ie, X8 ie	LYTX14BS	512014010	YTX14-BS
X9 2001 on	LYTX12BS	510012009	YTX12-BS
300cc			
Nexus, Vespa	LYTX14BS	512014010	YTX14-BS
400cc			
Beverly, MP3, X Evo	LYTX14BS	512014010	YTX14-BS
500cc			
Beverly, Cruiser, Euro3, MP3, X9	LYTX14BS	512014010	YTX14-BS
SANYANG			
50cc			
Big Wheel, Free, Pure,	LYT4LBS	503014003	YS12-4L-BS
Super Fancy	LYT4LBS	503014003	YS12-4L-BS
125cc			
Duke, Husky	LYTX7LBS	506014005	YTX7L-BS
150cc			
Attila	LYTX7ABS	506015005	YTX7A-BS
SUZUKI			
50cc			
AJ50, AZ50, Sepia, Tune, UF,	LYT4BBS	503902004	YT4B-5
AZ50 (ZZ)	LYT4BBS	503902004	YT4B-5
AD50A, Address, AG50T, AJ50,	LYT4LBS	503014003	YS12-4L-BS
FB50M	LYT4LBS	503014003	YS12-4L-BS
AP50, R7, RC50, AY50, Katana,	LYT4LBS	503014003	YS12-4L-BS
W, WR	LYT4LBS	503014003	YS12-4L-BS
RG50, TS50W, TV50	LYB4LB	504011002	CB4L-B
TS50 X, XA, XK, UX, W, Zillion	LYT4LBS	503014003	YS12-4L-BS
TR50 Street Magic,	LYT4BBS	503902004	YT4B-5
UR 50 Velde, YR50	LYT4BBS	503902004	YT4B-5
UZ50X	LYTX4LBS	503014003	YTX4L-BS
70-80cc			
DRZ70	LYTR4ABS	503903004	YTR4A-BS
FB80D	LYTX5LBS	504012003	YTX5L-BS
FB80M, FR80	LYT4LBS	503014003	YS12-4L-BS
90cc			
FB90	LYT4LBS	503014003	YS12-4L-BS
100cc			
AG100	LYTX5LBS	504012003	YTX5L-BS
125cc			
GZ Marauder, RV125 R, SE,	LYTX7LBS	506014005	YTX7L-BS

MODEL	LUCAS	DIN NO.	O.E. OR OTHER
SUZUKI CONTINUED			
DZ125	LYTX7LBS	506014005	YTX7L-BS
RG125 F	LYTX7ABS	506015005	YTX7A-BS
VL125 Intruder LC	LYTX7LBS	506014005	YTX7L-BS
150cc			
AN150	LYTX7ABS	506015005	YTX7A-BS
185cc			
TS185ER	LYT4LBS	503014003	YS12-4L-BS
200cc			
DR200 SE,RV200	LYTX7LBS	506014005	YTX7L-BS
250cc			
AN250 Burgman	LYT12ABS	511901014	YS12-12A-BS
AN250, GSF250,	LYTX7ABS	506015005	YTX7A-BS
GZ250 Marauder, VL250	LYTX7LBS	506014005	YTX7L-BS
400cc			
AN Burgman 99-02, SV400S	LYTX9BS	508012008	YTX9-BS
AN Burgman 2003	LYT12ABS	511901014	YS12-12A-BS
DR-2400, E	LYT7B4	507901012	YT7B-4
GSX400FS Inazuma, VZ400	LYTX7ABS	506015005	YTX7A-BS
600cc			
GSR600, GSF Bandit, GSF 600	LYTX9BS	508012008	YTX9-BS
GSX 600F Katana, RF 600, R, RU	LYTX9BS	508012008	YTX9-BS
GSX-R 600 V, W	LYTX12BS	510012009	YTX12-BS
650cc			
AN650, DR650RSE, RSEU	LYTX14BS	512014010	YTX14-BS
DL650 V-Storm, DR650 RE, REU	LYTX12BS	510012009	YTX12-BS
DR650 SE, XF Freewind	LYTX9BS	508012008	YTX9-BS
SV650	LYT12ABS	511901014	YS12-12A-BS
750cc			
GSX750 F, Katana, GSXR750W	LYTX9BS	508012008	YTX9-BS
GSX750P, W, WS to 95	LYTX12BS	510102009	YTX12-BS
GSXR750 93 to 01, GSXR750	LYT12ABS	511901014	YS12-12A-BS
800cc			
VL Intruder, Volusia	LYTX12BS	510012009	YTX12-BS
VS800GL, VX800, U	LYB16B	519012019	CB16-B
VZ800 Marauder	LYTX12BS	510012009	YTX12-BS
1000cc			
DL 1000 V-Storm	LYTX14BS	512014010	YTX14-BS
GSX-R, TL1000	LYTX12BS	510012009	YTX12-BS
TL1000 R, S	LYT12ABS	511901014	YS12-12A-BS
1100cc			
GSX-R 1100, W	LYTX12BS	510012009	YTX12-BS
1200cc			
GSF 1200 S, SA, Bandit,	LYTX12BS	510012009	YTX12-BS
GSX 1200	LYTX12BS	510012009	YTX12-BS
1300cc			
GSX1300R Hayabusa	LYT12ABS	511901014	YS12-12A-BS
GSX1300BK, GSX1300R	LYTX12BS	510012009	YTX12-BS
1400cc			
GSX1400	LYTX14BS	512014010	YTX14-BS
VS1400 GLF, GLP	LYTX16BS	514902022	YTX16-BS
1500cc			
VL 1500 Intruder	LYTX16BS	514902022	YTX16-BS
1600cc			
Marauder, Boulevard M95	LYTX16BS	514902022	YTX16-BS
SYM			
50cc			
Big Wheel	LYT4LBS	503014003	YS12-4L-BS
125cc			
Duke, Super Duke	LYTX7ABS	506015005	YTX7A-BS
TRIUMPH			
600-675cc			
Daytona 600/650 Speed Four,	LYTX9BS	508012008	YTX9-BS
675 Street Triple	LYTX9BS	508012008	YTX9-BS
TT600	LYTX12BS	510012009	YTX12-BS
750cc			
Bonneville, Daytona, Speed Triple	LYB14LA2	514011014	CB14L-A2

MODEL	LUCAS	DIN NO.	O.E. OR OTHER
TRIUMPH CONTINUED			
800cc			
Bonneville	LYTX12BS	510012009	YTX12-BS
865-885cc			
America, Bonneville,	LYTX12BS	510012009	YTX12-BS
Scrambler, Speedmaster	LYTX12BS	510012009	YTX12-BS
Legend TT T509, Thunderbird,	LYB14LA2	514011014	CB14L-A2
Trophy	LYB14LA2	514011014	CB14L-A2
Tiger	LYTX14BS	512014010	YTX14-BS
900cc			
Adventurer, Daytona,	LYB14LA2	514011014	CB14L-A2
Legend TT, Saxon	LYB14LA2	514011014	CB14L-A2
Bonneville, Scrambler, Thruxton	LYTX12BS	510012009	YTX12-BS
Speed Triple, Sport Sprint,	LYB14LA2	514011014	CB14L-A2
Tiger, Trident	LYB14LA2	514011014	CB14L-A2
Thunderbird, Trophy 91-98	LYB14LA2	514011014	CB14L-A2
Trophy 1999-2002	LYTX14BS	512014010	YTX14-BS
950cc			
T 595	LYB14LA2	514011014	CB14L-A2
955cc			
Tiger, Daytona, Sprint ST RS	LYTX14BS	512014010	YTX14-BS
1000-1200cc			
Daytona	LYB14LA2	514011002	CB14L-A2
Speed Triple, Sprint ST,	LYTX12BS	510012009	YTX12-BS
Trophy 1999-2002	LYTX14BS	512014010	YTX14-BS
YAMAHA			
50cc			
Aerox, Breeze, BW, Bump,	LYB4LB	504011002	CB4L-B
Zest, CW50L, N	LYB4LB	504011002	CB4L-B
BA50, S, N, C, YA50 R, S, T,	LYT4LBS	503014003	YS12-4L-BS
YJ50R Vino	LYT4LBS	503014003	YS12-4L-BS
CS50,Z, CV50A,R,ZR,	LYTX4LBS	503014003	YTX4L-BS
EW50, EW50N	LYB4LB	504011002	CB4L-B
TTR50E, EV, YV50H	LYT4BBS	503902004	YT4B-5
XF50, XF50W	LYTX5LBS	504012003	YTX5L-BS
YB50	LYT4BBS	503902004	YT4B-5
YW50A Zuma, XC50, D,	LYTX5LBS	504012003	YTX5L-BS
Vino Classic	LYTX5LBS	504012003	YTX5L-BS
65cc			
CW65	LYB4LB	504011002	CB4L-B
90cc			
BW'S 100	LYTX5LBS	504012003	YTX5L-BS
YA90	LYT4LBS	503014003	YS12-4L-BS
100cc			
XC100, YT 100, YW100	LYTX5LBS	504012003	YTX5L-BS
125cc			
NXC125	LYTX7ABS	506015005	YTX7A-BS
TDR125	LYTX5LBS	504012003	YTX5L-BS
TTR125E/LE	LYT4LBS	503014003	YS12-4L-BS
XC125TRB, YJ125T	LYTX7ABS	506015005	YTX7A-BS
YBR125ED	LYTX7LBS	506014005	YTX7L-BS
225cc			
XT,225 Serow, E,EC,FG,G,GC	LYT7Z5	507902011	YT7Z5
230cc			
TTR230, E, T, V	LYTX5LBS	504012003	YTX5L-BS
250cc			
CP250, V, Morphous	LYT210S	508901005	YT210S
TZR	LYTR4ABS	503903004	YTR4A-BS
VP250, YPR250, YP300	LYTX9BS	508012008	YTX9-BS
WR250F	LYTX5LBS	504012003	YTX5L-BS
YP250S	LYB14LA2	514011014	CB14L-A2
YP250 Majesty	LYT7B4	507901012	YT7B-4
XT250, X	LYT7Z5	507902011	YT7Z5
XT250V, XTZ250, YBR250, YS250	LYTX7LBS	506014005	YTX7L-BS
400cc			
XJR400R, YP400,	LYTX9BS	508012008	YTX9-BS
XV400,	LYB12ALA2	512013012	CB12AL-A2
450cc			
WR450F	LYTX5LBS	504012003	YTX5L-BS

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
AEON			
50-100cc			
Cobra	LYTX4LBS	503014003	YTX4L-BS
AQUA-JET			
All Models	LYB16B	519012019	CB16-B
ARCTIC CAT			
50cc			
DVX50	LYTX5LBS	504012003	YTX5L-BS
250-300cc			
-2006	LYB14LA2	514011014	CB14L-A2
2006-	LYTX12BS	510012009	YTX12-BS
400cc			
All Models	LYTX9BS	508012008	YTX9-BS
550-700cc			
Prowler 550, 650, 700	LMB12V22		YS12-N18L-A
BOMBARDIER (BRP CAN-AM)			
Most Models 1988-1993	LYB16LB	519011019	CB16L-B
Most Models 1994-2003	LYB16CLB	519014018	CB16CL-B
GTX4-Tec	LYB30CLB		CB30CL-B
50-90cc			
DS50 Quest, DS70, DS90, DS90F	LYTX4LBS	503014003	YTX4L-BS
200cc			
Rally	LYB14AA2	514012014	CB14A-A2
250cc			
DS250	LYTX12BS	510012009	YTX12-BS
300-450cc			
Outlander 330, 400 -04	LYTX15LBS		YTX15L-BS
Outlander 400, XT,	LYTX20LBS	518901026	YTX20L-BS
Max 2004-10	LYTX20LBS	518901026	YTX20L-BS
DS450	LYT7B4	507901012	YT7B-4
500-600cc			
Quest 99-05	LYB16CLB	519014018	CB16CL-B
Outlander, MAX,	LYTX20LBS	518901026	YTX20L-BS
Renegade -10	LYTX20LBS	518901026	YTX20L-BS
650-800cc			
DS560	LYTX15LBS		YTX15L-BS
Quest	LYB16CLB	519014018	CB16CL-B
Outlander	LYTX20LBS	518901026	YTX20L-BS
E-TON			
50-90cc			
1999-2005	LYTX4LBS	503014003	YTX4L-BS
2005-	LYTX5LBS	504012003	YTX5L-BS
150cc			
CXL 150 Yukon, YXL 150 Yukon	LYTX9BS	508012008	YTX9-BS
FAZER			
All Models	LYB16B	519012019	CB16-B
HONDA			
Aqua Trax F-12X, F-12	LYTX20LBS	518901026	YTX20L-BS
90cc			
TRX90X, EX	LYTX5LBS	504012003	YTX5L-BS
125cc			
ATC125M	LYTX12BS	510012009	YTX12-BS
TRX Fourtrax	LYTX9BS	508012008	YTX9-BS
200cc			
All Models	LYTX12BS	510012009	YTX12-BS
250cc			
ATC250ES Big Red,	LYTX12BS	510012009	YTX12-BS
TRX Recon, ES	LYTX12BS	510012009	YTX12-BS
TRX250 FourTrax, TE, TM,	LYTX12BS	510012009	YTX12-BS
TRX250EX Sportrax	LYTX9BS	508012008	YTX9-BS
300cc			
TRX300EX, Sportrax	LYTX9BS	508012008	YTX9-BS
TRX300 Fourtrax, FW 4 x 4	LYTX14BS	512014010	YTX14-BS

MODEL	LUCAS TYPE	DIN NO.	O.E. OR OTHER
HONDA CONTINUED			
350cc			
FL 350R Odyssey	LYTX12BS	510012009	YTX12-BS
TRX350D Fourtrax, Rancher 4 x 4	LYTX14BS	512014010	YTX14-BS
400-420cc			
FL 400 Pilot,	LYTX14BS	512014010	YTX14-BS
TRX400 FW Foreman, Rancher	LYTX14BS	512014010	YTX14-BS
TRX 400EX Sportrax	LYTX9BS	508012008	YTX9-BS
450-650cc			
TRX Range, Fourtrax, Rubicon,	LYTX14BS	512014010	YTX14-BS
Foreman	LYTX14BS	512014010	YTX14-BS
TRX450R	LYTZ7S	507902011	YTZ7S
500cc			
All Models	LYTX14BS	512014010	YTX14-BS
650cc			
TRX650 Four Trax Rincon	LYTX14BS	512014010	YTX14-BS
680cc			
TRX680FA Four Trax Rincon	LYTX20LBS	518901026	YTX20L-BS
JOHN DEERE			
All Models	LYB16CLB	519014018	CB16CL-B
KASEA			
50cc			
All Models	LYTX4LBS	503014003	YTX4L-BS
65-250cc			
All Models	LYTX7ABS	506015005	YTX7A-BS
KAWASAKI			
J300 TS, SX	LYB16CLB	519014018	CB16CL-B
JS400, JS440, JS550 up to 1986	LYB16LB	519011019	CB16L-B
JS440, JS550, SX,	LYB16CLB	519014018	CB16CL-B
JS650TS 1987 on	LYB16CLB	519014018	CB16CL-B
JF650 Range, JH750 Range	LYB16CLB	519014018	CB16CL-B
JH750ST, JH750 Zxi, JS750 Sxi	LYTX20LBS	518901026	YTX20L-BS
JT750 XiR, ST, STS	LYB16CLB	519014018	CB16CL-B
JS800, JH900, JT900 STS, STX	LYTX20LBS	518901026	YTX20L-BS
JH1100 Range, JH1200, JT1200	LYTX20LBS	518901026	YTX20L-BS
KFX50, KSF80-A, KFX90	LYTX5LBS	504012003	YTX5L-BS
KLF220-A, KLF250 Bayou	LYB14AA2	514012014	CB14A-A2
J300 TS, SX	LYB16CLB	519014018	CB16CL-B
KAF300/400, Mule 500, 520,	LYB14AA2	514012014	CB14A-A2
550, 600, 610	LYB14AA2	514012014	CB14A-A2
KAF450/540, Mule 1000,	LYB16CLB	519014018	CB16CL-B
2010, 2020, 2030	LYB16CLB	519014018	CB16CL-B
KEF300, KAF300 Mule,	LYB14AA2	514012014	CB14A-A2
KLF300-B, C	LYB14AA2	514012014	CB14A-A2
KLF300-A Bayou, KVF300	LYB16CLB	519014018	CB16CL-B
KVF360 Prairie	LYB14AA2	514012014	CB14A-A2
KLF400, KVF400,	LYB16CLB	519014018	CB16CL-B
KSF400-A (KFX400)	LYTX9BS	508012008	YTX9-BS
KVF400-A, B, C, D	LYB14AA2	514012014	CB14A-A2
Advantage Classic	LYTX20LBS	518901026	YTX20L-BS
KAF450, 540, 620 Ranges,	LYB16CLB	519014018	CB16CL-B
Mule 2010-20-30	LYB16CLB	519014018	CB16CL-B
Mule 3000, 3010, 3020, 4010	LYTX20LBS	518902026	YTX20L-BS
KFX450R	LYTX7LBS	506014005	YTX7L-BS
620cc to 1500cc	LYTX20LBS	518901026	YTX20L-BS
PANDA MOTOR SPORT			
KD50, KD80, KD125	LYB9B	509014008	CB9-B
POLARIS			
250, 335, 330, 335, 400, 425cc			
all models	LYB14AA2	514012014	CB14A-A2
Hawkeye, Predator,	LYB14B2	514014014	CB14L-A2
Sportman 300, 2006-10	LYB14B2	514014014	CB14L-A2
Indy 500, Lite, Deluxe RXL/SKS	LYB14AA2	514012014	CB14A-A2
Indy Classic, Trail, ES	LY50N18LA2	520012020	C50-N18L-A2
Outlaw 50/90, Predator 50/90,	LYTX5LBS	504012003	YTX5L-BS

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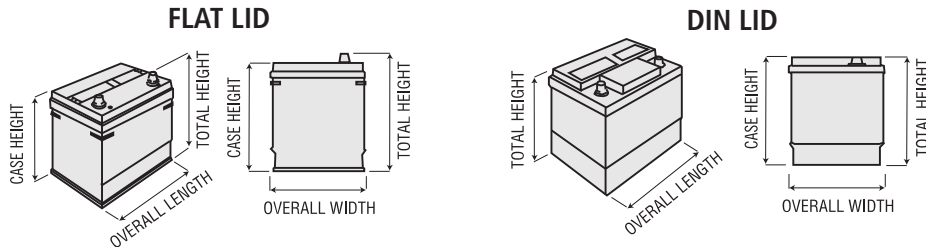
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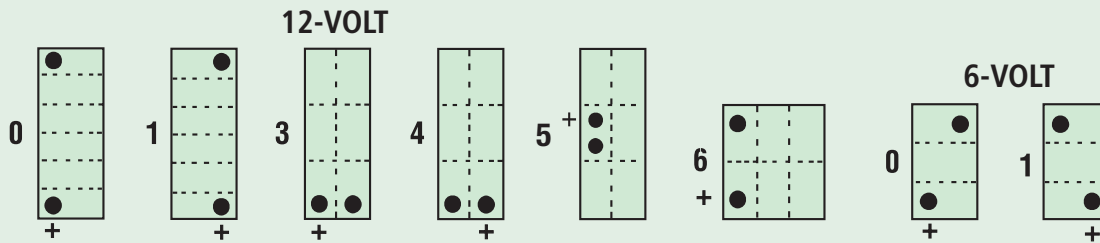
Battery Layouts

The dimensions given in the battery specifications are illustrated in the following diagrams.

The overall dimensions include any projections such as base hold-downs, the edges of the lid and handles, or the lifting edges where appropriate.



LAYOUTS



TERMINALS



NOTES

- 1 Battery with handles
- 2 Battery with 2 base holddowns 29mm high on short sides (B9)
- 3 Battery with 2 base holddowns 19mm high on long sides (B4)
- 4 Battery with 2 base holddowns 10.5mm high on long sides (B1)
- 5 Battery with 4 base holddowns 10.5mm high on long and short sides (B3)
- 6 Battery with 2 base holddowns 10.5mm high on long sides and 2 base holddowns 29mm high on short sides (B5)
- 7 Battery with base holddown 10.5mm high on long and short sides with 5 indentations on long sides for clamping (B13)
- 10 Semi-traction (for standard and heavy cyclic applications)
- 11 Heavy duty (incorporates semi-traction and additional vibration proof features)
- 17 Battery fitted with 'magic eye' hydrometer
- 21 Leisure/Marine (for light cyclic applications)

BASE HOLDDOWNS

- B1 Battery with 2 base holddowns 10.5mm high on long sides
- B3 Battery with 4 base holddowns 10.5mm high on long and short sides
- B4 Battery with 2 base holddowns 19mm high on long sides
- B5 Battery with 2 base holddowns 10.5mm high on long sides and 2 base holddowns 29mm high on short sides
- B9 Battery with 2 base holddowns 29mm high on short sides
- B13 Battery with base holddown 10.5mm high on long and short sides with 5 indentations on long sides for clamping

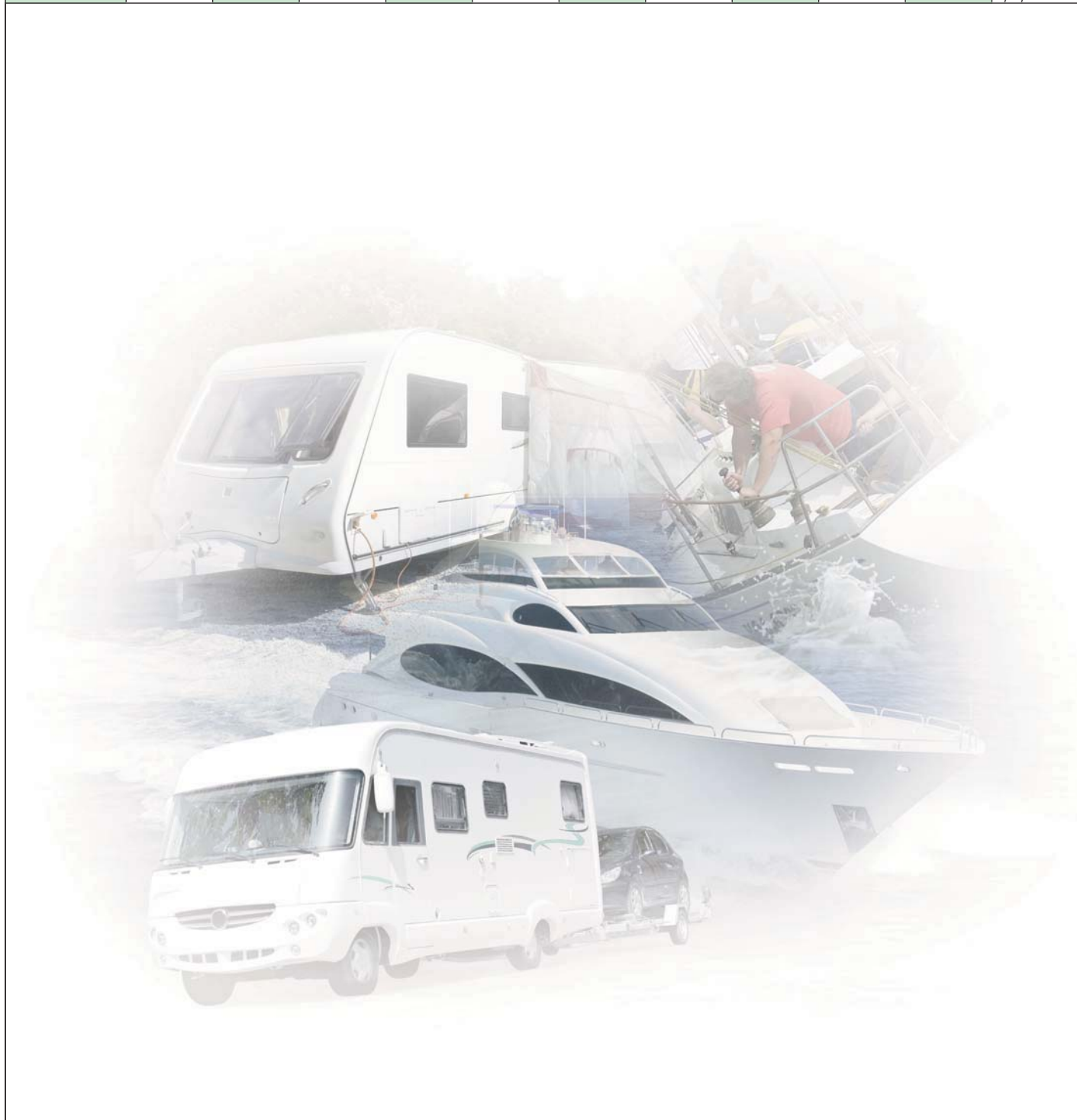
Car Battery Specifications

LUCAS	ETN NO.	AH. CAP. @20HR RATE	EN COLD START	BENCH CHARGE AMPS	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT KG	LAYOUT	TERMINALS	BASE HOLDDOWN	NOTES
CLASSIC												
LC017	ETN 583400072	83	725	7	354	175	175	22.0	0	1	B13	1,7
LC063	ETN 535400033	35	330	3	210	175	175	11.8	0	1	B13	1,7
LC075	ETN 553400047	53	510	5	243	175	175	15.5	0	1	B13	1,7
LC096	ETN 568403057	68	600	6	278	175	190	18.8	0	1	B13	1,7
CLASSIC CV												
LC629	ETN 655013090	155	900	15	513	223	225	41.2	3	1		1
PREMIUM												
LP058L	ETN 560058056	60	560	5	242	175	175	13.4	0	1	B4	1,3
LP058R	ETN 560059056	60	560	5	242	175	175	13.4	1	1	B4	1,3
MX5		31	470	5	194	130	180	18.0	0	1		
LP002L	ETN 540406034	40	340	3	175	175	190	10.2	0	1	B13	5
LP002R	ETN 540407030	40	300	3	175	175	190	10.2	1	1	B13	5
LP005L	ETN 560412051	60	510	6	230	170	225	15.7	0	1		1
LP005R	ETN 560413051	60	510	6	230	170	225	15.7	1	1		1
LP009L	ETN 550050050	55	500	5	226	170	200	13.2	0	1	B1	1
LP009R	ETN 550051050	55	500	5	226	170	200	13.2	1	1	B1	1
LP012	ETN 545412040	45	400	5	210	175	190	11.7	0	1	B13	1,7
LP012UR	ETN 552400047	52	470	5	210	175	190	12.6	0	1	B13	1,7
LP015	ETN 540015034	40	340	4	245	135	200	11.5	1	1	B9	2
LP017	ETN 590122072	90	720	8	354	175	190	21.1	0	1	B13	1,7
LP018	ETN 588021064	88	640	8	354	175	190	21.1	1	1	B13	1,7
LP019	ETN 595402080	95	800	8	354	175	190	21.9	0	1	B13	1,7
LP020	ETN 610402092	110	920	10	393	175	190	25.2	0	1	B13	1,7
LP027	ETN 560408054	60	540	6	243	175	190	13.9	0	1	B13	1,7
LP037	ETN 536037032	36	320	4	245	135	200	10.5	0	19	B9	2
LP038	ETN 536038032	36	320	4	245	135	200	10.5	1	1	B9	1,2
LP048H	ETN 545106030	45	300	4	218	133	223	10.8	0	1	B1	4
LP049H	ETN 545107030	45	300	4	218	133	223	10.8	1	1	B1	4
LP053	ETN 545156033	45	330	4	234	128	220	11.7	0	1		1
LP054	ETN 535118030	35	300	3	196	127	223	10.1	0	3		1
LP054H	ETN 535040030	35	300	3	196	127	223	9.3	0	3	B1	1,4
LP055	ETN 535119030	35	300	3	196	127	223	10.1	1	3		1
LP057	ETN 545158033	45	330	4	234	128	220	11.7	1	1		1
LP063	ETN 541400036	41	360	4	210	175	175	10.9	0	1	B13	1,7
LP065	ETN 550403044	50	440	5	243	175	175	13.0	0	1	B13	1,7
LP068	ETN 568404055	68	550	6	266	175	220	16.4	0	1	B1	1,4
LP069	ETN 568405055	68	550	6	266	175	220	16.4	1	1	B1	1,4
LP072T	ETN 570072060	70	600	7	266	175	220	20.7	1	1		
LP075	ETN 560409054	60	540	6	243	175	175	14.1	0	1	B13	1,7
LP077	ETN 545413040	45	400	4	210	175	190	11.7	1	1	B13	1,7
LP078	ETN 556401048	56	480	5	243	175	190	13.9	1	1	B13	1,7
LP085	ETN 543085036	43	360	4	210	175	175	10.9	0	19	B13	1,7
LP088	ETN 568088057	68	570	6	257	172	236	20.6	0	1		1
LP089	ETN 568089057	68	570	6	257	172	236	20.6	1	1		1
LP096	ETN 570409064	70	640	7	278	175	190	16.9	0	1	B13	1,7
LP096R	ETN 570410064	70	640	7	278	175	190	16.9	1	1	B13	1,7
LP097	ETN 560097057	60	570	6	243	175	175	15.5	0	19	B13	1,7
LP099	ETN 572099068	72	680	7	278	175	175	18.5	0	19	B13	1,7
LP100	ETN 568403057	68	570	7	278	175	175	15.9	0	1	B13	1,7
LP110	ETN 580406074	80	740	7	317	175	175	18.8	0	1	B13	1
LP154	ETN 545155033	45	330	4	234	128	220	11.7	0	3		1
LP155	ETN 545157033	45	330	4	234	128	220	11.7	1	3		1
LP249H	ETN 591400074	91	740	8	302	172	225	21.1	0	1	B1	1,4
LP250H	ETN 591401074	91	740	8	302	172	225	21.1	1	1	B1	1,4
LP78DT630	ETN 570178063	70	630	7	260	179	201	16.4	SIDE&TOP	1 + SIDE	B1	1,4
LP75-550	ETN 560055055	60	550	6	230	179	185	14.3	1	SIDE	B1	1,4
LP78-630	ETN 570078063	70	630	7	260	179	185	16.2	1	SIDE	B1	1,4
SUPREME												
LS019	ETN 600402083	100	830	9	354	175	190	22.6	0	1	B13	1,7
LS063	ETN 544402044	44	440	4	210	175	175	11.9	0	1	B13	1,7
LS075	ETN 560409054	60	540	6	243	175	175	15.8	0	1	B13	1,7
LS100	ETN 572409068	72	680	7	278	175	175	18.9	0	1	B13	1,7

LUCAS	ETN NO.	AH. CAP. @20HR RATE	EN COLD START	BENCH CHARGE AMPS	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT KG	LAYOUT	TERMINALS	BASE HOLDDOWN	NOTES
FUSION AGM												
LF027	ETN 560901068	60	680	6	242	175	190	17.7	0	1	B13	1,7
LF096	ETN 570901076	70	760	7	278	175	190	20.4	0	1	B13	1,7
LF110	ETN 580901080	80	800	8	315	175	190	22.5	0	1	B13	1,7
LF017	ETN 595901085	95	850	8	353	175	190	26.4	0	1	B13	1,7
LF020	ETN 605901095	105	950	10	393	175	190	29.2	0	1	B13	1,7
PREMIUM CV												
LP612	ETN 640035076	140	760	14	513	185	215	36.0	3	1		1
LP616L	ETN 600047060	100	600	10	402	175	220	24.1	0	1		1
LP616R	ETN 600035060	100	600	10	402	175	220	24.1	1	1		1
LP620	ETN 643029100	143	1000	14	513	218	225	46.0	3	1	B3	1,5
LP622	ETN 630014068	130	680	12	512	216	207	38.0	3	1		1
LP623	ETN 643017100	143	1000	14	513	223	225	44.0	4	1		1
LP624	ETN 700029135	200	1350	18	518	276	240	53.9	4	1		1
LP625	ETN 700038105	200	1050	18	518	276	240	53.9	3	1		1
LP629	ETN 670043100	170	1000	16	513	223	225	43.3	3	1		1
LP629UR	ETN 680032100	180	1000	18	513	223	225	44.2	3	1		1
LP630	ETN 610013076	110	760	11	513	175	209	32.0	3	1	B3	1,5
LP632	ETN 725012115	225	1150	20	518	276	240	57.2	3	1		1
LP633	ETN 635042068	135	680	13	360	253	240	40.0	6	1		1
LP636	ETN 620038084	120	840	12	513	189	225	33.9	4	1		1
LP637	ETN 620045068	120	680	12	513	189	225	33.9	3	1		1
LP638	ETN 643107090	143	900	14	510	174	210	38.0	0	1		1
LP643	ETN 590040054	90	540	9	346	175	239	25.2	0	1		1
LP644	ETN 590041054	90	540	9	346	175	239	25.2	1	1		1
LP655	ETN 625012072	125	720	14	346	175	289	35.5	0	1		1
LP656	ETN 625014072	125	720	14	346	175	289	35.5	1	1		1
LP663	ETN 610047068	110	680	11	346	175	239	28.8	0	1		1
LP664	ETN 610048068	110	680	11	346	175	239	28.8	1	1		1
LP665	ETN 620047085	120	850	12	346	175	239	30.5	0	1		1
LP663FL	ETN 610047075	110	750	11	346	175	239	29.9	0	1		1
LP664FL	ETN 610048075	110	750	11	346	175	239	29.9	1	1		1
LP663H	ETN 610404068	110	680	11	346	175	239	28.8	0	1	B1	1
LP663HFL	ETN 610404068	110	680	11	346	175	239	29.9	0	1	B1	1
LP6TN	ETN 625023085	125	850	12	286	269	230	37.6	7	1		1
LP31-1000	ETN 615031100	115	1000	10	330	171	237	25.1	2	1		
ACCESSORIES												
SAP 537270	JIS TERMINAL ADAPTOR											
SAP 537272	FORD TERMINAL ADAPTOR											
SAP 537267	VW HOLDDOWN ADAPTOR											
GARDEN MACHINERY												
LP895	UTR-9	32	310	3	205	132	185	7.9	0	19		1
LP896	U1-9	32	310	3	205	132	185	7.9	1	19		1
LUCAS CLASSIC 12 VOLT HARD RUBBER RANGE												
LH182		65	550	6	332	133	203	15.0	1	1	B6	
LH241		68	580	7	307	170	225	22.0	0	1		
LH242		68	580	7	307	170	225	22.0	1	1		
LH279		60	500	6	490	110	220	22.0	5	1		
LH291		57	470	5	250	168	221	16.0	1	1		
LUCAS CLASSIC 6 VOLT HARD RUBBER RANGE												
LH404		77	395	8	218	170	190	10.0	0	1		
LH421		63	270	5	170	175	225	9.5	0	1		
LH451		185	500	12	413	174	220	24.0	1	1		
LH501		92	290	9	227	172	221	11.5	0	1		
LH511		112	350	10	257	172	221	12.5	0	1		
LH521		123	390	12	291	173	221	18.0	0	1		
LH531		138	450	13	319	173	222	19.0	0	1		
LH541		154	480	15	348	173	222	20.0	0	1		
LH711		182	520	18	258	181	370	35.0	0	1		
LH712		198	650	19	315	181	370	42.0	0	1		
LH713		265	700	20	372	181	370	51.0	0	1		
LH722		190	530	19	422	176	260	40.0	0	PSV		
LH732		160	490	16	364	176	243	38.0	0	1		
LH733		190	530	19	422	176	243	42.0	0	1		

Leisure and Marine Battery Specifications

TYPE	AH. CAP. @20HR RATE	EN COLD START	BENCH CHARGE AMPS	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT KG	LAYOUT	TERMINALS	BASE HOLDDOWN	NOTES
LUCAS LEISURE											
LL22MF	75	550	7	266	175	225	16.9	1	1	B1	1,4,21
LL25MF	100	720	9	354	175	190	21.1	0	1	B13	1,7,21
LL26MF	100	740	9	302	172	255	21.1	1	1	B1	1,4,21
MARINE											
LM22MF	75	550	7	266	175	225	16.9	1	1	B1	1,4,21
LM25MF	100	720	9	354	175	190	21.1	0	1	B13	1,7,21
LM26MF	100	740	9	302	172	255	21.1	1	1	B1	1,4,21
LUCAS XV SEALED LEISURE & MARINE RANGE											
LX23MF	75	600	6	257	172	220	17.4	1	DT	B1	1,4,17,21
LX24MF	86	720	8	257	172	220	18.8	1	DT	B1	1,4,17,21
LX27MF	100	720	8	302	172	220	21.2	1	DT	B1	1,4,17,21
LX31MF	110	800	8	330	172	242	23.3	1	DT		1,17,21
LX35MF	120	900	10	330	172	242	28.3	1	DT		1,17,21



PART NO	VOLTAGE	AH @ 20HR	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KGS)
VRLA						
LSLA2.1-6	6	2.1	97	25	55	0.30
LSLA2.8-6	6	2.8	134	34	64	0.56
LSLA4-6	6	4	70	47	106	0.85
LSLA12-6	6	12	151	50	98	2.01
LSLA1.2-12	12	1.2	97	48	55	0.57
LSLA2.3-12	12	2.3	178	34	64	0.95
LSLA2.9-12	12	2.9	79	56	105	1.10
LSLA3.2-12	12	3.2	134	67	64	1.18
LSLA4.5-12	12	4.5	90	70	106	1.79
LSLA5-12	12	5	140	48	103	1.65
LSLA7-12	12	7	151	65	98	2.30
LSLA10-12	12	10	151	65	117	2.90
LSLA12-12	12	12	151	98	98	4.05
LSLA20-12	12	20	180	76	167	6.28

VRLA CYCLIC						
LSLC200-6	6	200	307	169	225	29.00
LSLC18-12	12	18	180	76	167	6.20
LSLC22-12	12	22	180	76	167	6.45
LSLC26-12	12	26	166	175	125	9.20
LSLC34-12	12	34	196	130	168	11.40
LSLC42-12	12	42	197	165	170	14.50
LSLC55-12	12	55	229	138	214	17.70
LSLC75-12	12	75	260	168	233	24.00
LSLC85-12	12	85	260	168	233	25.50
LSLC104-12	12	104	304	165	210	29.70
LSLC120-12	12	120	409	176	225	35.50
LSLC125-12	12	125	330	171	220	32.50
LSLC140-12	12	140	342	172	280	45.00
LSLC150-12	12	150	485	172	240	50.00
LSLC180-12	12	180	494	206	209	56.00
LSLC200-12	12	200	522	238	218	61.50
LSLC260-12	12	260	521	269	220	79.00

SUPER GEL						
LSG15-12	12	15.0	181	76	167	6.0
LSG24-12	12	24.0	166	175	125	9.6
LSG28-12	12	28.0	197	132	180	11.1
LSG38-12	12	38.0	210	175	175	14.6
LSG50-12	12	50.0	261	135	230	19.0
LSG60-12	12	60.0	261	170	178	19.8
LSG70-12	12	70.0	261	171	210	23.0
LSG90-12	12	87.9	330	171	235.5	28.8
LSG120-12	12	120.0	345	174	283	38.7
LSG200-12	12	196.0	518	274	238	62.5

GOLF TROLLEY CYCLIC						
LSLC22-12G	12	22	180	76	167	6.45
LSLC26-12G	12	26	166	175	125	9.20
LSLC34-12G	12	34	196	130	168	11.40

ACCESSORIES	
DESCRIPTION	PART NO.
Powakaddy connector for 22Ah Battery	LK22
Powakaddy connector for 26Ah Battery	LK26
Powakaddy connector for 34Ah Battery	LK34
Powakaddy T piece connector	LPKT
Hill Billy connector with Torberry	LHBC



Motorcycle Battery Specifications

PART NO.	VOLTAGE	AH	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT (KG)	LAYOUT	TERMINALS	VARTA NO.
CONVENTIONAL WET OR DRY CHARGED BATTERIES									
L6N42A4	6	4	70	70	95	0.74	1	2	004014001
L6N63B	6	6	99	57	110	1.18	0	2	006012003
L6N11A3A1	6	11	121	59	129	2.01	0	2	012014008
LB496	6	10	91	83	160	2.09	0	2	008011004
LYB4LB	12	4	120	70	92	1.59	0	2	504011002
LYB5LB	12	5	120	62	129	1.92	0	2	505012003
LYB7A	12	8	137	75	134	2.86	1	2	508013008
LYB9B	12	9	135	75	138	2.87	1	2	509014008
LYB10LA2	12	11	134	90	145	3.61	1	2	511012009
LYB10LB2	12	11	134	90	145	3.61	0	2	511013009
LYB12AA	12	12	134	80	160	4.08	1	2	512011012
LYB12ALA2	12	12	134	80	160	4.08	0	2	512013012
LYB14AA2	12	14	134	89	176	4.44	1	2	514012014
LYB14LA2	12	14	134	89	164	4.42	0	2	514011014
LYB14B2	12	14	134	89	164	4.42	1	2	514014014
LYB16ALA2	12	16	205	70	162	5.14	0	2	516016012
LYB16B	12	19	175	100	155	6.31	1	2	519012019
LYB16CLB	12	19	175	100	175	6.40	0	2	519014018
LYB16LB	12	19	175	100	155	6.31	0	2	519011019
LY50N18LA2	12	20	206	92	160	6.35	0	2	520012020
LY60N30A	12	28	185	126	170	7.53	1	2	530034030
LY60N30LA	12	28	185	126	170	7.53	0	2	530030030
LYB30CLB	12	30	168	132	192	9.32	0	2	N/A
HIGH PERFORMANCE AGM LIQUIFIX BATTERIES									
LYTR4ABS	12	2.3	113	48	85	1.00	4	Push On	503904004
LYTX4LBS	12	3	114	70	85	1.36	0	2	503014003
LYTX5LBS	12	4	114	70	105	1.84	0	2	504012003
LYTX7ABS	12	6	150	87	93	2.46	1	2	506015005
LYTX7LBS	12	6	114	70	130	2.50	0	2	506014005
LYTX9BS	12	8	150	87	105	3.00	1	2	508012008
LYTX12BS	12	10	151	87	130	3.74	1	2	510012009
LYTX14BS	12	12	151	87	146	4.48	1	2	512014010
LYTX15LBS	12	13	175	87	130	5.15	0	2	N/A
LYTX16BS	12	14	151	87	158	4.91	0	2	514902023
LYTX18LBS	12	20	205	87	162	7.09	0	2	N/A
LYTX20BS	12	18	175	87	155	5.86	1	2	518902026
LYTX20LBS	12	18	175	87	155	5.86	0	2	518901026
VRLA SEALED BATTERIES									
LYT4B5/LYT4BBS	12	2.5	113	39	86	0.95	4	Push On	N/A
LYT4LBS	12	3	114	70	86	1.35	0	2	503014003
LYT5LBS	12	4	114	69	109	1.93	0	2	N/A
LYT6B3	12	6	110	68	110	2.16	0	2	N/A
LYT7B4	12	6.5	150	65	92	2.42	1	2	507901012
LYT9B4	12	8	150	69	105	2.93	1	2	N/A
LYT12ABS	12	10	151	87	105	3.29	1	2	511901014
LYT12B4	12	10	150	69	130	3.67	1	2	512901019
LYT14B4	12	12	150	69	145	4.23	1	2	N/A
LYTZ7S	12	6	114	71	106	2.27	0	2	507902011
LYTZ10S	12	8.5	151	87	94	3.24	1	2	508901015
LYTZ12S	12	11	151	87	110	3.91	1	2	509901020
LYTZ14S	12	11.3	151	87	110	3.91	1	2	511902023
LMB4LB	12	4	120	71	91	1.65	0	2	N/A
LMB12V7BB	12	6	150	65	92	2.42	1	2	N/A
LMB9B	12	9	136	76	139	2.95	0	2	N/A
LMB12AA	12	12	134	80	161	4.35	1	2	N/A
LMB14A2	12	13	135	89	170	4.44	0	2	N/A
LMB14BS	12	13	151	87	146	4.58	0	2	N/A
LMB16LB	12	19	175	100	155	6.54	0	2	N/A
LMB12V14LB	12	12	135	89	160	4.43	0	2	N/A
LMB12V16CLB	12	19	175	100	175	7.49	0	2	N/A
LMB12V20L	12	18	175	87	155	6.05	0	2	N/A
LMB12V20P	12	19	183	79	171	5.97	0	2	519901017
LMB12V22	12	18	205	87	162	7.11	0	2	N/A
LYGZ14HLBS	12	14	149	87	144	4.73	0	2	N/A
LYGZ20HLBS	12	20	176	87	153	6.02	0	2	N/A

MANBAT	OUTPUT VOLTS	AH @ 20HR	AH @ 5HR	LENGTH	WIDTH	HEIGHT	WEIGHT KG	TERMINALS	PALLET
LT12VXC	12	155	122	333	179	289	39.0	screw thread	28
LT125	6	242	198	260	181	286	30.4	8, UTL	32
LT125DT	6	242	198	260	181	286	30.4	10, Dual	32
LT145	6	251	216	260	181	302	32.8	10, Dual	32
LT185	12	200	158	397	179	378	49.4	10, Dual	12
LT185HC	12	220	172	397	179	378	54.5	10, Dual	12
LT1800	6	208	157	260	181	286	25.5	10, Dual	32
LT2000	6	216	172	260	181	286	26.8	10, Dual	32
LT2200	6	232	181	260	181	286	28.6	8, UTL	32
LT2200DT	6	232	181	260	181	286	28.6	10, Dual	32
LT250	6	255	217	295	181	295	32.7	10, Dual	32
LT250HC	6	280	239	295	181	295	35.5	10, Dual	32
LT305	6	310	253	302	181	371	39.5	10, Dual	16
LT305HC	6	340	283	302	181	371	43.6	10, Dual	16
LT16	6	380	296	302	181	425	50.5	10, Dual	16
LT16HC	6	420	322	302	181	425	53.2	10, Dual	16
LT24DCXC	12	85	62	273	171	248	21.4	10, Dual	54
LT27DCXC	12	105	90	324	171	248	24.5	10, Dual	36
LT31DCXC	12	130	99	330	171	248	30.5	10, Dual	36
LT8VGC	8	170	138	260	181	286	29.3	10, Dual	32
LT8VGCCHC	8	183	141	260	181	286	31.4	10, Dual	32

DEEP CYCLE CROSS REFERENCE

US BATTERY TYPE	TROJAN	CROWN	DYNO	DBC1 GROUP SIZE	MK
LT12VXC	T-1275	CR-155		30H	
LT125	T-125	CR-235	GC2H	GC2	PB6235
LT125DT	T-125	CR-235	GC2H	GC2	PB6235DT
LT145	T-145	CR-245	3H	GC2H	PB6244
LT185	J185	CR-195	SSW	921	PB12195
LT185HC	J185P	CR-210	SSW	921	PB12215
LT1800	T-605	CR-180	D105	GC2	
LT2000	T-605	CR-200	GC2C	GC2	PB6220
LT2200	T-105	CR-225	GC2B	GC2	PB6220
LT2200DT	T-105	CR-225	GC2C	GC2	PB6220DT
LT250	J250G	CR-250	3H	901	PB6250
LT250HC	J250P	CR-275	3H	901	
LT305	J305G	CR-305	4H	902	PB6305
LT305HC	J305P	CR-325	4H	902	PB6335
LT16	L16G	CR-350	L16	903	PB6350
LT16HC	L16P/L16H	CR-395	L16	903	
LT24TM	24DC85		24DCM		
LT27TM	27TMX	27DC105	27DCM	27	PB12105
LT27TMX	27TMH	27DC115	27DCM	27	PB12115
LT31TMX	31XHS	31DC130	31DCM	30H	PB12130XHS
LT8VGC	T-860/T-875	CR-165	8VGC	GC8	PB1666DT
LT8VGCCHC	T-890	CR-190		GC8	



Odyssey Battery Specifications

ODYSSEY RANGE - PURE LEAD HIGH POWER BATTERIES

PRODUCT FEATURES

- Longer service life (up to 8 years)
- Extra long storage life (up to 2 years)
- Deep discharge fast recovery
- Maintenance free
- Smaller and lighter than conventional batteries
- Superior cranking and fast charge capability
- Shock and vibration proof
- Withstands temperature extremes
- Can install in any position (except inverted)
- Non-hazardous
- Supplied fully charged and ready to go
- Optional metal jacket recommended for extreme physical applications

TYPE	VOLTAGE	CCA TO SAE	PULSE CURRENT AMPS	AH @ 20HR RATE	RESERVE CAPACITY (MINS)	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT KG	TERMINAL	LAYOUT
PC310	12	100	310	10	9	138	86	101	2.7	M4 Female Thread	0
PC370	12	370	370	15	25	200	77	140	5.7	M6 Stud	0
PC535	12	200	535	14	21	170	99	157	5.4	M6 Stud	1
PC545	12	185	545	14	21	178	86	131	5.2	M6 Female Thread	0
PC545MJ	12	185	545	14	21	180	88	131	5.5	M6 Female Thread	0
PC625	12	265	625	18	27	170	99	175	6.0	M6 Stud	0
PC680	12	220	680	18	28	182	76	168	7.0	M6 Female Thread	0
PC680MJ	12	210	680	18	28	185	79	170	7.5	M6 Female Thread	0
PC925	12	380	925	30	53	169	179	128	11.8	M6 Female Thread	0
PC925MJT	12	380	925	30	53	171	181	128	12.5	Post	0
PC925LMJT	12	380	925	30	53	171	181	128	12.5	Post	0
PC950	12	950	950	34	60	250	97	156	9.0	M6 Stud	0
PC1100	12	1100	1100	45	87	250	97	206	12.5	M6 Stud	0
PC1200T	12	550	1200	42	91	200	169	173	17.4	M6 Female Thread	0
PC1200MJT	12	550	1200	42	91	202	171	173	18.2	Post	0
PC1220	12	470	1220	70	135	302	175	190	20.7	Post	0
PC1230	12	730	1230	55	100	240	178	201	20.6	Dual	1
PC1350	12	770	1350	95	195	377	175	190	27.4	Post	0
PC1400	12	820	1400	65	125	240	174	221	22.7	Post	0
PC1500DT	12	880	1500	68	125	276	172	199	22.4	Dual	1
PC1700T	12	875	1700	72	156	331	168	176	27.6	M6 Female Thread	0
PC1700MJT	12	875	1700	72	156	331	168	195	28.8	Post	0
PC1750T	12	930	1750	74	135	333	170	195	26.3	Post	0
PC1800	12	1300	1800	214	475	578	125	316	60.0	M10 Stud	1
PC2150S	12	1150	2150	96	185	330	18	239	35.3	3/8" Stud	2
PC2150MJS	12	1150	2150	96	185	332	20	239	36.3	Dual	2
PC2250	12	1225	2250	126	240	286	269	233	39.0	Dual	7

Various models are available with the following Suffix explanation

DT = Dual terminal. L = Reverse terminal layout. MJ = Metal jacket. S = Terminal adaptor. T = Standard tapered terminal.



OPTIMA RANGE

PRODUCT FEATURES

- Sealed system
- Cells wound with optimum compression
- Uniform compression throughout each cell
- Grid constructed from purest lead
- Electrolyte totally absorbed
- Lower internal resistance, high active surface area
- SpiralCell Technology

BENEFITS

- Absolutely maintenance-free
- High vibration resistance
- Improved cycle life
- Extended storage life, high resistance to corrosion
- Totally spill-proof, flexibility of fitment position and location
- Faster recharge, higher discharge performance
- Improved performance in extremes of temperature

TYPE SHORT CODE	VB UK NO.	VOLTAGE	CCA EN	AH @ 20HR RATE	RESERVE CAPACITY (MINS)	WEIGHT KG	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	TERMINAL	LAYOUT
REDTOP - STARTING											
RTS2.1	810-355	6	815	50	110	8.3	252	90	206	T1	Central
RTS3.7	820-255	12	730	44	90	14.4	237	172	197	T1	1
RTR3.7	835-255	12	730	44	90	14.4	237	172	197	T1	0
RTU3.7	822-255	12	730	44	90	15	237	172	191	T1	1
RTC4.2	801-287	12	815	50	100	17.2	254	175	200	T1	Central
RTS4.2	802-250	12	815	50	100	17.2	254	175	200	T1	Central
RTR4.2	803-251	12	815	50	100	17.2	254	175	200	T1	Central
RTU4.2	804-250	12	815	50	100	17.6	254	175	200	T1	1

YELLOWTOP - DUAL POWER

YTS2.1	818-356	6	765	55	120	9.5	254	90	203	T1	Central
YTR2.7	873-176	12	460	38	66	11.8	237	129	227	T1	1
YTS2.7J	870-176	12	460	38	66	11.8	237	129	227	T3	0
YTR2.7J	872-176	12	460	38	66	11.8	237	129	227	T3	1
YTS2.7	871-176	12	460	38	66	11.8	237	129	227	T1	0
YTR3.7	840-222	12	660	48	98	16.6	237	172	197	T1	0
YTS4.2	812-254	12	765	55	120	19.5	254	175	200	T1	Central
YTU4.2	814-254	12	765	55	120	19.9	254	175	200	T1	1
YTS5.5	851-187	12	975	75	155	27.1	324	165	238	T1	Central

BLUETOP - MARINE

BTDC 4.2	816-253	12	765	55	120	19.7	254	175	200	DT	1
BTSLI4.2	806-252	12	815	50	100	17.4	254	175	200	DT	1
BTDC5.5	852-188	12	975	75	155	26.5	325	165	238	DT	7
TROLLFURY	988-112		CARRIER FOR 2 X BTDC4.2 BATTERIES			1.5	581	213	213		



Battery Charger Specifications

'FIT ONE CHARGE ONE' ELECTRIC FENCE BATTERY UNIT

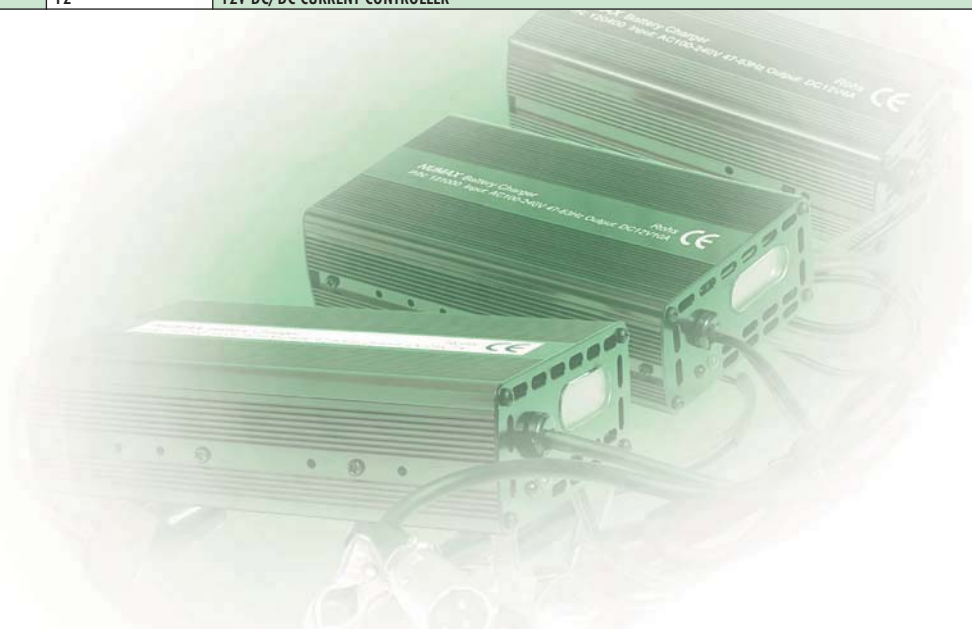
BATTERIES					CHARGER			
PART NO.	QTY	VOLTAGE	AMP	TYPE	VOLTAGE	AMP	OPERATION	TOTAL WEIGHT KG
F1C1	2	12	32	Sealed maintenance free	12	2	Fully automatic	16.9

'CONNECT & FORGET' BATTERY CHARGERS

PART NO.	VOLTAGE	AMP	LENGTH (MM)	WIDTH (MM)	HEIGHT (MM)	WEIGHT KG
120100	12	1	105	40	30	0.35
120200	12	2	105	40	30	0.35
120400	12	4	155	70	48	0.5
121000	12	10	167	103	50	0.9
122000HD	12	20	190	118	58	1.7
123000HD	12	30	275	152	70	2.4
240200MOB	24	2	155	70	48	0.5
240400MOB	24	4	155	70	48	0.5
240700MOB	24	7	167	103	50	0.9
241200HD	24	12	190	118	58	1.7

CTEK BATTERY CHARGERS

PART NO.	VOLTAGE	DESCRIPTION
XCO.8	6	6V 0.8A, 4 STAGE SMART CHARGER
XS0.8	12	12V 0.8A, 6 STAGE SMART CHARGER
XS3.3	12	12V 3.3A, 4 STAGE SMART CHARGER
MXS3.6	12	12V 3.6A, 4 STAGE MULTI SMART CHARGER
MXS3.8	12	12V 3.8A, 7 STAGE MULTI SMART CHARGER
MXS5.0	12	12V 5A, 8 STAGE SMART CHARGER
MXS5.0TC	12	12V, 5A, 8 STAGE MULTI FUNCTION SMART CHARGER AND TESTER
MXS5.0LIFE	12	12V 5A, 8 STAGE MULTI FUNCTION LIFEPO4 SMART CHARGER
MXS7.0	12	12V 7A, 8 STAGE MULTI FUNCTION SMART CHARGER
MXS10	12	12V 10A, 8 STAGE SMART CHARGER
MXS25	12	12V 25A, 8 STAGE SMART CHARGER
XS2500EXTENDED	12	12V 25A, 8 STAGE SMART CHARGER (INCLUDES 6 METRE CABLE AND WALL MOUNTING BRACKET)
MXTS70	12	12V 70A/24V 35A, 8 STAGE WORKSHOP CHARGER
MXT4.0	24	24V 4A, 8 STAGE SMART CHARGER
MXT14	24	24V 14A, 8 STAGE SMART CHARGER
XT14000AE	24	24V 14A, 8 STAGE SMART CHARGER (EXTENDED 6.5m CABLE & CLAMPS)
M45	12	12V 3.6A, 4 STAGE MULTI FUNCTION SMART CHARGER
M100	12	12V 7A, 8 STAGE MULTI FUNCTION SMART CHARGER
M200	12	12V 15A, 8 STAGE MARINE CHARGER
M300	12	12V 25A, 8 STAGE MARINE CHARGER
D250S	12	12V 20A 6 STAGE DC/DC SMART CHARGER (DUAL INPUT)
D250TS	12	12V 20A 6 STAGE DC/DC SMART CHARGER (DUAL INPUT)
SMARTPASS	12	12V DC/DC CURRENT CONTROLLER



LUCAS PART NO	UK BBMS PART NO	LUCAS ALTERNATIVE	HIGHER CAP. ALTERNATIVE
CAR BATTERY SPECIFICATIONS			
CLASSIC RANGE			
LC017	017	LP017	LP019
LC063	063	LP063	LP012
LC075	075	LP075	
LC096	096	LP096	
PREMIUM RANGE			
LP002L	202		
LP002R	002		
LP005L	005	LP068	LP068
LP005R	014	LP069	LP069
LP009L	009L		
LP009R	009R		
LP012	012		
LP015	015	LP038	
LP017	017	LP019	LP019
LP018	018		
LP019	019	LS019	LS019
LP020	020		
LP027	027	LP075	LS075
LP037	037		
LP038	038		LP015
LP048H	048	LP053	
LP049H	049	LP057	
LP053	053	LP048H	
LP054	054	LP154	
LP054H			
LP055	055	LP155	
LP057	057	LP049H	
LP063	063	LP012	LS063
LP065	065	LP075	LS075
LP068	068	LP030	
LP069	069	LP031	
LP072T	072	LP069	
LP075	075	LP027	LS075
LP077	077		
LP078	078		
LP096	096	LP100	LS096
LP096R	086		
LP100	100	LP096	LS096
LP110	110/115		
LP154	156		
LP155	157		
LP249H	335		
LP250H	334		
LH279	279		
LH291	291		
LH404	404		
LH421	421		
LP059L	111		
LP058R	113		
LP31-900	C31-900		
LP75DT-550			
LP78DT-630			
LP895	895		
LP896	896		
SUPREME RANGE			
LS019	019	LP017	
LS063	063	LP063	
LS075	075	LP075	
LS100	100	LP100	
FUSION RANGE			
LF017	017	LS019	
LF020	020	LS020	
LF027	027	LS027	
LF096	096	LS096	
LF110	110	LS110	

LUCAS PART NO	UK BBMS PART NO	LUCAS ALTERNATIVE	HIGHER CAP. ALTERNATIVE
COMMERCIAL BATTERY SPECIFICATIONS			
CLASSIC CV RANGE			
LC629	629	LP629	LP629
PREMIUM CV RANGE			
LH451	451		
LH501	501		
LH511	511		
LH521	521		
LH531	531		
LH541	541		
LP612	612	LP637	
LP620	620		
LP621	621	LP629	LP629
LP622	622	LP621	LP629
LP623	623		
LP624	624		
LP625	625	LP632	LP632
LP629	629	LP629UR	LP629UR
LP629UR	629	LP629	
LP630	615		
LP632	632	LP625	
LP633	333		
LP636	636		
LP637	627	LP612	LP612
LP638	638		
LP643	643	LP663	LP663
LP644	644	LP664	LP664
LP655	655		
LP656	656		
LP663	663		
LP663FL			
LP663H			
LP664	664		
LH712	712		
LH713	713		
LH722	722		
LH733	733		

Same Footprint Car Battery Guide

PART NO.	OPPOSITE LAYOUT	HIGHER CAPACITY	LOWER CAPACITY	TALLER CASE	LOWER CASE	NEAREST LUCAS ALTERNATIVE
LP058L	LP058R			LP009L		LP065
LP058R	LP058L			LP009R		LP078
LP002L	LP002R					LP007
LP002R	LP002L					LP077
LP005L	LP005R					LP068
LP005R	LP005L					LP069
LP009L	LP009R					LP058L
LP009R	LP009L					LP058R
LP012	LP077		LP063		LP063	LP063
LP017	LP018	LP019		LP019		LP019
LP018	LP017					
LP019	LP018		LP017		LP017	LP017
LP020			LP017			LP019
LP027	LP078		LP065		LP075	LP075
LP037						
LP038		LP015				LP015
LP048H	LP049H	LP053				LP053
LP049H	LP048H	LP049				LP049
LP053	LP057		LP048H			LP048H
LP054	LP055					LP054H
LP054H						LP054
LP055	LP054					
LP057	LP048H		LP049H			LP049H
LP063	LP077	LP012		LP012		LP012
LP065	LP078	LP075		LP027		LP075
LP068	LP069					LP088
LP069	LP068	LP072T				LP089
LP072T	LP068		LP069			LP069
LP075	LP078		LP065	LP027		LP027
LP077	LP063					
LP078	LP065		LP077			LP077
LP088	LP089					LP068
LP089	LP088					LP069
LP096	LP096R		LP100		LP100	LP100
LP096R	LP096					
LP100	LP096R	LP096		LP096		LP096
LP110			LP096			LP096
LP154	LP155					LP054
LP155	LP154					LP055
LP249H	LP250H					
LP250H	LP249H					

TYPE	OPPOSITE LAYOUT	HIGHER CAPACITY	LOWER CAPACITY	NARROWER CASE	WIDER CASE	NEAREST LUCAS ALTERNATIVE
LP612	LP636		LP637		LP621	LP621
LP620						LP621
LP621	LP623	LP629	LP622	LP637	LP625	LP629
LP622	LP623	LP621		LP637	LP625	LP621
LP623	LP621			LP636	LP624	LP636
LP624	LP625			LP623		LP623
LP625	LP624	LP632		LP629UR		LP629UR
LP629	LP623	LP629UR	LP621	LP637	LP625	LP629UR
LP629UR			LP629	LP612	LP625	LP629
LP630					LP620	LP637
LP632			LP625			LP625
LP636	LP637				LP623	LP623
LP637	LP636	LP612			LP621	LP621
LP643	LP644	LP663				LP663
LP644	LP643	LP664				LP664
LP655	LP656					
LP656	LP655					
LP663	LP664		LP643			LP643
LP664	LP663		LP644			LP644

Battery Testing

5-Point Testing Plan

1. Initial Examination

Proof of purchase? Sound appearance? Within warranty period? Approved application?



Before an accurate decision can be made, you need to complete points 2, 3 and 4 with the nearest combination of three findings resulting in the correct diagnosis (if you are testing the battery on the vehicle - see Note A).

2.	VOLTMETER TEST - OPEN CIRCUIT VOLTAGE					
	10 TO 11.5	10 TO 11.5	0 TO 12.6	6 TO 12.3	Below 10	Above 11.5
3.	HIGH RATE DISCHARGE TEST					
	Below 9 Voltage often rises	Below 9 Voltage often rises	0 Voltage drops immediately to 0	Below 9 Voltage steadily falls	0 - 3 Voltage remains stable	3 - 9 Voltage remains stable
4.	HYDROMETER TEST - SPECIFIC READING					
5.	DECISION					
	Accept Manufacturing Defect Internal short	Accept Manufacturing Defect Internal short/ Internal leakage	Accept Manufacturing Defect Internal Connection failure	Reject Service deterioration (See Note B)	Reject Over discharged/ Sulphated. Recovery may be possible (See Note C)	Reject Vehicle charging error. Recovery may be possible (See Note D)

Notes

- A If testing the battery on the vehicle you must first remove the surface charge. With the engine off, turn the headlights on and leave for a minimum of one minute, then switch off the headlights and leave to stand for a minimum of two minutes.
- B Where discoloured electrolyte is observed, it is always due to excessive service wear. Recharge and retest using the 3-Point Testing Plan.
- C If the battery is identified as over-discharged then attempt to recharge, and retest using the 3-Point Testing Plan.
- D Batteries may be undercharged or overcharged as a result of a malfunction of the vehicle's electrical system. This is not the fault of the battery and the vehicle's electrics should be checked. If the voltage reading is below 12.3V recharge and reset using the 3-Point Testing Plan.

4

COSHH Information

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Lead Acid Batteries

THIS IS IMPORTANT HEALTH AND SAFETY INFORMATION REQUIRED BY LAW, PLEASE DIRECT TO THE PERSON RESPONSIBLE FOR HEALTH AND SAFETY

To the person responsible for Health and Safety in accordance with the requirement of the consumer Production Act 1987 and the Health and Safety At Work Act 1974, we enclose data sheets containing health and safety information relating to Manbat Ltd.

We have drawn up the data sheets with a view to making available information on the storage, handling and the use of our products and would welcome your co-operation in the distributing this information within your organisation to those of your staff who are concerned with it.

The batteries supplied have been subject so far as is reasonably practical, to the test, examinations and necessary research as required by Section 6 of the Health and Safety at Work Act 1974 and are satisfied that they are safe and without risk to health and safety when used properly.

However it is imperative that all persons who test, charge, fit or handle lead acid batteries are aware of the dangers which can exist if the tasks are carried out incorrectly. The stored electrical energy is significant, the units are heavy and the constituent parts are both corrosive and hazardous.

It is imperative that the manufacturer's instructions are read carefully and complied with.

If there is any doubt about any aspects relating to the proper use of our products, we will be only too pleased to advise you on any precautions that may be necessary.

PRODUCT SAFETY DATA

PRODUCT	Lead acid electric storage batteries filled with dilute sulphuric acid
TECHNICAL NAME	Lead Acid Accumulator
COMPONENTS	Lead Lead Dioxide Lead Sulphate Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries filled with liquid electrolyte) Corrosive Group 8
U.N NUMBER	2794
PACKING GROUP	3
TYPE OF CONTAINER	Polypropylene
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	Not classified for transport by air.

NATURE OF SUBSTANCES WITHIN THE BATTERY

Corrosive
Stored electrical energy
Toxic compounds
Explosive gas mixture involved during charging

WARNING	Hydrogen and oxygen gases are emitted from a battery when it is being charged and at other times, particularly if it is moved or shaken. These gases contain droplets of corrosive Electrolyte.
PROTECTIVE MEASURES	Keep away from children Keep away from sources of ignition No naked flames, No Smoking Keep and charge in a well ventilated area. Wear protective clothing Do not allow electrolyte to come into contact with skin or eyes. Do not ingest

ELECTROLYTE (BATTERY ACID)

The electrolyte in the battery is a mixture of sulphuric acid and water to concentrations of 40% sulphuric acid.

CORROSION	Attacks many metals with liberation of hydrogen gas which is highly flammable and forms explosive mixtures with air. Attacks clothing. Reacts with many chemicals with varying degrees of violence. Avoid contact with sulphide waste or arsenic.
FLASH POINT	Non-flammable, however hydrogen gas may be evolved
BOILING POINT	110 Degrees Centigrade

HEALTH RISKS ASSOCIATED WITH ELECTROLYTE

GENERAL	Corrosive and irritant. Inhalation and skin absorption are primary
INHALATION	The vapour can irritate all parts of the respiratory system.
EYE CONTACT	Burns the eyes severely. Permanent damage may occur if urgent medical aid is not sought
SKIN CONTACT	Prolonged contact will result in tissue damage
INGESTION	Will cause severe irritation and damage (See Emergency First Aid advice below)

SPILLAGE OF ELECTROLYTE

Wear protective clothing. A rubber or PVC apron with bib, rubber or PVC gloves and face visor.

Neutralise with alkali (soda ash, sodium carbonate, sodium bicarbonate) washed down with water and scrubbed with a hard broom

ALL SPILLAGES MUST BE CONTAINED – DO NOT ALLOW TO ENTER MAIN DRAINAGE

If electrolyte has entered a water course or sewer or contaminated soil or vegetation, your local Environmental Agency Office should be advised.

EMERGENCY FIRST AID

INHALATION	Remove from exposure, rest and keep warm. Obtain medical attention immediately.
EYE CONTACT	Wash out with plenty of water for at least 15 minutes. Obtain URGENT medical attention.
SKIN CONTACT	Remove contaminated clothing immediately and wash affected skin with plenty of water. Obtain medical attention.
INGESTION	If the electrolyte has been confined to the mouth give large quantities of water as mouth wash ensuring that it is NOT swallowed. If electrolyte has been swallowed, give water to drink immediately. DO NOT INDUCE VOMITING. OBTAIN URGENT MEDICAL ATTENTION
BURNS	Apply sterile bandage. Obtain medical attention.

LEAD & LEAD COMPOUNDS

Lead and lead compounds are classified as being potentially toxic.

The lead and lead compounds are well contained within the battery and the possibility of lead exposure is negligible. However the battery cells should not be dismantled under any circumstances.

Small amounts of arsenic and antimony are present in certain types of battery, and during the charging process there is a chance that stibine and arsenic may be given off as gases.

The concentration of these gases are negligible and do not present any risk to health.

Guidance notes are available from Health and Safety Executive on Stibine and Arsenic (E.H.11 and E.H.12)

HANDLING AND STORAGE

Batteries are generally heavy and awkward to handle. Care should be taken and correct lifting techniques employed.

Keep the battery upright at all times

Always wear protective clothing when handling batteries, rubber or PVC apron, rubber or PVC gloves and eye protection. This is particularly important during fitting and charging operations.

Use only distilled water for topping up cells, other substances may cause a dangerous reaction in the cells. Top up the recommended level – do not over fill. Follow manufacturer's instructions.

Ensure batteries are maintained in dry, clean conditions, to avoid the possibility of corrosion and short circuits developing.

No attempts should be made to repair a battery. This work involves a number of hazards and should be carried out by suitably trained persons in accordance with manufacturer's instructions.

All labelling and manufacturer's instruction must be read carefully and complied with.

The electrolyte is dilute sulphuric acid which is both poisonous and corrosive. It must not be allowed to come into contact with eyes, skin or clothing.

Members of the public must never remove electrolyte from a battery. This should only be carried out in a controlled environment by persons trained to perform that operation.

DISTRIBUTORS

If acid of recommended specific gravity is not available for the internal filling, the maximum concentration dilution with water should not exceed a specific gravity of 1.400 when measured at 16 degrees centigrade / 60 degrees fahrenheit. The use of a higher concentration of acid is highly dangerous and should only take place under the supervision of a qualified chemist.

FIRE PRECAUTIONS

The internal ohmic resistance of a lead acid battery is very low and a high current will flow if the terminals are short circuited. Sparks and molten metal may be ejected. It is therefore essential to avoid metal objects touching across the terminals.

Before working on or near a battery, remove any metallic items from hands, wrist and neck, together with any such items that may fall from pockets.

Always use insulated tools. Spanners should be of the single ended type. Do not place tools or other conductive objects on the top of batteries.

Switch off all chargers before connection/disconnections are made to batteries. Charge off the vehicle in a well ventilated area.

Hydrogen and oxygen gases are emitted from a battery when it is being charged and also at other times, particularly if it is moved or shaken. These gases contain droplets of corrosive electrolyte.

A Hydrogen/air mixture can produce a violent explosion if ignited, and it must be assumed that this mixture is present in the immediate vicinity at the top of the battery at all times.

The boxes and lid are made from several types of plastic components, which in normal conditions present no hazard. However, in the case of fire the plastic could decompose and may give off toxic vapours. Suitable respiratory protection should be worn during fire fighting.

The following precautions therefore must always be taken:-

Charging and storage must be carried out in well ventilated areas.

No smoking or naked flames should be permitted in the charging area or elsewhere during installations, inspections on or near the battery.

TO EXTINGUISH FIRE USE CO2 OR SMOTHER WITH DRY POWDER

AGM & GEL

PRODUCT SAFETY DATA	
PRODUCT	A.G.M Batteries (Absorbed Glass Mat) Lead acid electric storage batteries with immobilized dilute sulphuric acid absorbed into the plates. Batteries are totally sealed with no danger of leakage.
PRODUCT	GEL Batteries (Gel filled batteries) Lead acid electric storage batteries with the electrolyte immobilized in a silica gel. Batteries are totally sealed with no danger of leakage.
TYPE OF CONTAINER	ABS
TECHNICAL NAME	Lead Acid Accumulator
COMPONENTS	Lead Lead Dioxide Immobilized Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries: immobilized electrolyte)
UN NUMBER	2800,
CLASS	8
	Unregulated by DOT for transportation by road, rail, sea and air, because they meet the requirements of : 49 CFR 173.159 (d) The only transportation requirements are: 1) The batteries must be securely packed in such a way as to prevent the possibility of short circuiting. 2) The battery and outer packaging must be labelled "NONSPILLABLE BATTERY"
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	These batteries are unregulated for air transport because they meet the requirements of: Special Provision "A 67" as promulgated by the International Civil Aviation Association (IATA) and (ICAO). They also meet the Vibration and Pressure Differential Tests of the International Maritime Dangerous Goods (IMDG) regulations.

Transport details for AGM & GEL Batteries

We hereby certify that all AGM (sealed lead acid) batteries and GEL type batteries supplied by Manbat Ltd. conform to UN2800, Class 8 "wet non-spillable electrical storage". Also under the IATA Dangerous Goods Regulations they meet the requirements to conform to special provision "A67" classifying them as non-dangerous goods. They are therefore EXEMPT from the subject regulations for dangerous goods and are acceptable for transport by Air Sea Rail Road. SEE BELOW FOR DETAILS.

PRODUCT SAFETY DATA	
PRODUCT	A.G.M Batteries (Absorbed Glass Mat) Lead acid electric storage batteries with immobilized dilute sulphuric acid absorbed into the plates. Batteries are totally sealed with no danger of leakage.
PRODUCT	GEL Batteries (Gel filled batteries) Lead acid electric storage batteries with the electrolyte immobilized in a silica gel. Batteries are totally sealed with no danger of leakage.
TYPE OF CONTAINER	Polypropylene "Non Spillable"
TECHNICAL NAME	Lead Acid Accumulator
COMPONENTS	Lead Lead Dioxide Immobilized Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries: immobilized electrolyte) UN Number 2800, Class 8. Unregulated by DOT for transportation by Road Rail, Sea and Air, because they meet the requirements of : 49 CFR 173.159 (d) The only transportation requirements are: 1) The batteries must be securely packed in such a way as to prevent the possibility of short circuiting. 2) The battery and outer packaging must be labelled "NONSPILLABLE BATTERY"
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	These batteries are unregulated for air transport because they meet the requirements of: Special Provision "A 67" as promulgated by the International Civil Aviation Association (IATA) and (ICAO). They also meet the Vibration and Pressure Differential Tests of the International Maritime Dangerous Goods (IMDG) regulations.

Transport Details for Wet Flooded Batteries

PRODUCT SAFETY DATA	
PRODUCT	Lead acid electric storage batteries filled with dilute sulphuric acid.
TECHNICAL NAME	Lead Acid Accumulator.
COMPONENTS	Lead Lead Dioxide Lead Sulphate Sulphuric Acid (Max Strength of 40%)
HAZARDOUS CLASSIFICATION	(Batteries filled with liquid electrolyte) Corrosive Group 8
U.N NUMBER	2794
PACKING GROUP	3
TYPE OF CONTAINER	Polypropylene
INTERNATIONAL AIR TRANSPORT ASSOCIATION CLASSIFICATION	Not classified for transport by air.

In response to the 'Hazardous Waste Regulations' appertaining to the disposal of lead acid batteries.

We as a battery wholesaler are now obliged to provide a collection service for scrap lead acid batteries.

To facilitate this we are able to supply our larger customers with scrap collection bins to aid with storage and collection of recyclable batteries, which we will then organise the collection of as and when required. We are also able to offer a collection via our normal van route.

In order for us to be able to collect scrap from you, you need to register with the Environment Agency in order to obtain a 'Premises Code' unique to your business. This is a mandatory requirement of the environment agency. Without this premises code we are not allowed to collect from your premises.

The registration is simple and costs just £18 on line at www.environment-agency.gov.uk/subjects/waste and then click on register as a hazwaste producer, the whole process takes just a few minutes. This gives you your premises number.

The only exceptions to the registrations are businesses and shops that have less than 200kgs of waste per year, all other premises have to register or a penalty will be legally enforced by the Environment Agency.

Please contact your nearest manbat branch to arrange supply of bins or collection of scrap batteries.

Guarantee

BATTERY RANGE	APPLICATION	GUARANTEE PERIOD
Classic	Car	2 year
Premium	Car	3 year
Supreme	Car	4 year
Fusion	Car	4 year
XV Leisure	LX	3 year
Leisure	LL	2 year
Marine	LM	2 year
Premium	Commercial	2 year
Golf		1 year
Industrial		1 year
Motorcycle		1 year
Mobility		1 year
VRLA/GEL		1 year
Standby		Warranty on application
Optima		Warranty on application
Odyssey		Warranty on application
Chargers		1 year

Your Guarantee

Lucas batteries are guaranteed for the periods as stated, protecting you against electrical and mechanical breakdown as a result of manufacturing defect.





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