

Enhanced Flooded Battery



FULL ENERGY

Full energy and solar batteries are critical power sources for applications requiring longer operation periods. With reinforced interior design and high charging levels, Mutlu EFB batteries are designed for longer cycle life for cleaning machines, electric vehicles, alarm and security systems, solar power systems, disabled chairs, elevators, pallet lifting equipment, golf carts, camper vans and UPS. Up to 50% deep discharge in applications requiring higher power, EFB batteries for marine applications do not require maintenance due to lower water loss levels.





Features

Advanced patented Ca-Ca, silver alloy grid technology exclusively designed for **EFB** batteries



Superior Technical

active material developed for **EFB** batteries



vibration resistant



Spill proof electrolyde system up to 55° tilt angle



Maintenance-free product technology



QR and barcode system enabling tracking of products



Nearly **100%** recycling MUTLU friendly and



Higher performance under severe climate and working conditions compared to standard batteries



fully framed







Areas Of Application

fully framed

Mutlu Valf Regulated Lead Acid (VRLA) batteries contain gel electrolytes which are accepted to be the cutting edge lead acid battery technology. As Gel batteries reprocess almost 100% of the gas generated during operation and this feature allows indoor area usage and creates more environmental friendly batteries. These batteries empower your fleet with their high performance while reducing your costs thanks to their longer life cycle. With minimum discharge feature, they enable a longer shelf life and are suitable for seasonal stand-by periods.





Advanced patented Ca-Ca, silver alloy grid technology exclusively designed for **GEL** batteries



Advanced active material developed for **GEL** batteries



More

vibration

resistant



Spill proof electrolyde system up to 55° tilt angle



Exclusively designed valve system with pressure control (VRLA)

VRLA



proof gel electrolytes



QR and barcode system enabling tracking of products



Maintenance-free product technology



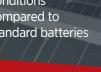
Compatible with deep discharge



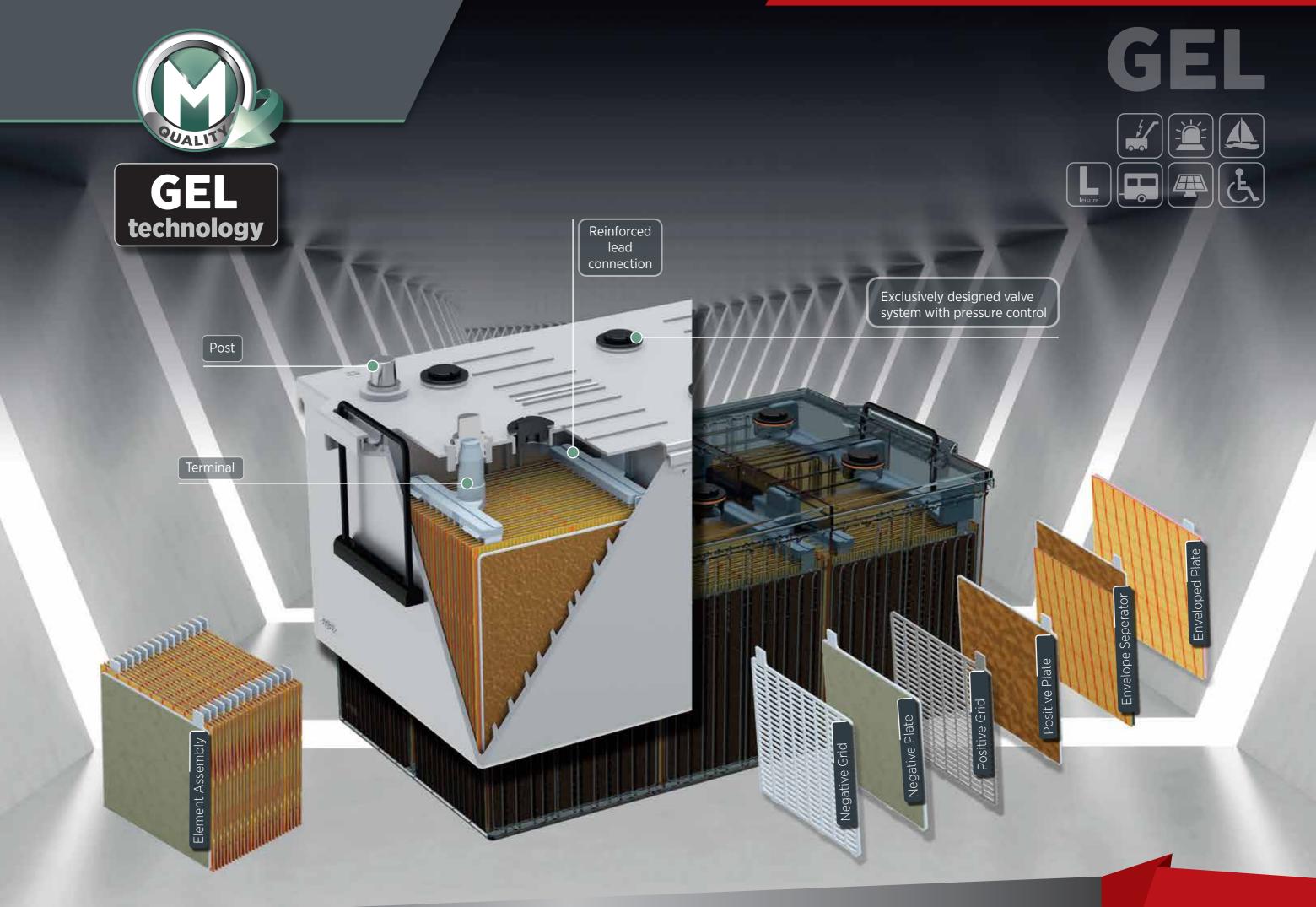
Nearly **100%** recycling capability of all products make MUTLU environmental friendly and sustainable



Higher performance under severe climate and working conditions compared to standard batteries









SFB
Superior Flooded Battery
technology



EFB
Enhanced Flooded Battery
technology



GEL technology

Technologic Specifications

Areas of Application







Advanced patented Ca-Ca, silver alloy grid technology exclusively designed for SFB marine batteries



Advanced active material developed for SFB marine batteries



Sealed lid technology



Advanced patented Ca-Ca, silver alloy grid technology exclusively designed for EFB Full Energy batteries



Advanced active material developed for EFB Full Energy



Advanced patented Ca-Ca, silver alloy grid technology exclusively designed for GEL batteries



Advanced active material developed for **GEL** batteries



Exclusively designed lid with pressure controled valve system (VRLA)



Spill proof gel electrolytes



Compatible with deep

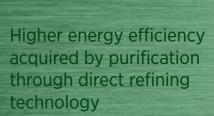


RECYCLING ABOVE INDUSTRY STANDARDS





Nearly **100%** recycling capability in all products.



TS EN ISO 14001 and TS EN ISO 50001 certified environment-friendly manufacturing facility



Maintenance-free product technology



More vibration resistant



Architecture storing electrolytes up to a melting point of 55°



Nearly 100% recycling capability of all products make MUTLU environmental friendly and sustainable



QR and barcode system enabling tracking of products

* Fully sealed in certain type of batteries

	Туре								Over	all dime	nsions	(mm)	
вох	MUTLU CODE	PART NUMBER	Capacity at 20 hour rate, +25 C Ah	CCA EN (A)	CCA SAE (A)	Layout	Terminal	Holddown	Lenght mm	Width mm	Height Except Terminal mm	Height mm	Weight With acid kg.

SFB MARINE BATTERIES

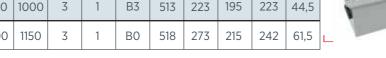
L5	ML5.90.060.A	90	600	650	0	1	B13	353	175	190	190	22,2
D3	MD3.125.090.A	125	900	950	0	1	В0	349	175	263	286	32,5
D5	MD5.180.100.A	180	1000	1050	3	1	В3	513	223	195	223	48,5
D6	MD6.200.100.B	200	1000	1050	3	1	В0	518	273	216	242	62,2



EFB FULL ENERGY BATTERIES

L1	FL1.48.030.A	48	300	320	0	1	В3	207	175	190	190	14,0
L2	FL2.60.036.A	60	360	380	0	1	В3	242	175	190	190	17,5
L3	FL3.75.048.A	75	480	500	0	1	В3	278	175	190	190	20,0
L5	FL5.95.064.A	95	640	660	0	1	B13	353	175	190	190	26,0
Н3	FH3.100.064.A	100	640	660	0	1	В3	323	176	207	228	27,5
D4	FD4.135.068.A	135	680	750	3	1	В3	513	186	195	223	37,0
D5	FD.165.095.A	165	950	1000	3	1	В3	513	223	195	223	44,5
D6	FD.225.110.B	225	1100	1150	3	1	во	518	273	215	242	61,5



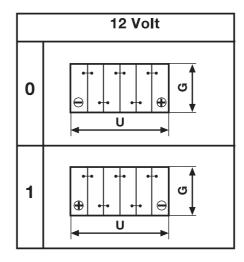


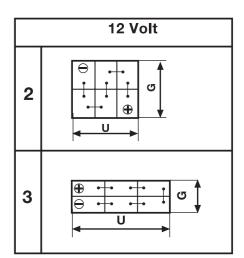
GEL BATTERIES

D6	GD6.210.084.B	210	840	900	3	1	В0	518	273	216	242	75,0	
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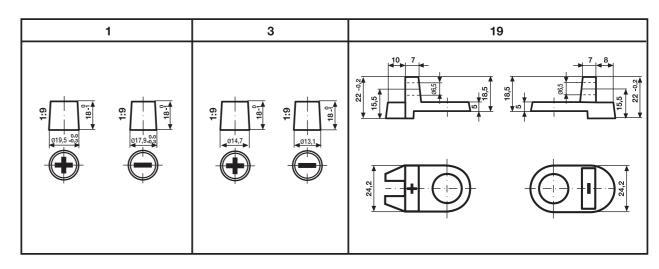


Type of Installation





CONNECTION TERMINALS



HOLD DOWNS

B 00	Without bottom connections		
B 01	3 hold downs	B 09	
B 03	3 hold downs 3 hold downs	B 13	5 hold downs 3 hold downs
B 04	3 hold downs	B 14	5 hold downs