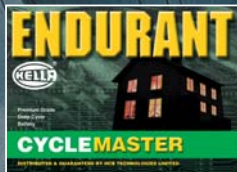
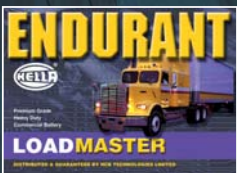
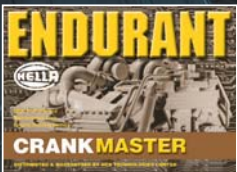


POWER THAT GOES THE DISTANCE



# ENDURANT BATTERIES

New Zealand's Leading Marine Battery. No matter what the application...no matter what the power demand Hella Endurant Batteries has the correct battery for the rigorous demands typical of marine service. For pounding vibration due to heavy seas, long cranking due to stubborn engine starting, heavy house power and auxiliary loads, long hours of trolling without recharge and even extremely heavy demands of commercial vessels and luxury yachts.

Hella Endurant Batteries delivers the highest quality, most extensive range with sizes and types to fit any marine application, offering value for money and peace of mind.

- Petrol Engine Starting
- Diesel Engine Starting
- Shore Power
- Auxiliary Applications
- House Power
- Multi Battery Systems
- Communications
- Trolling Motors
- Battery Chargers



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GOOD ENOUGH FOR AROUND THE WORLD  
A SAFE BET FOR YOU.

# ENDURANT



# MARINE ENGINE STARTING BATTERIES

## BOATMASTER

HELLA ENDURANT BOATMASTER is a marine grade engine starting battery. Similar in construction to the loadmaster, this range has heavier positive plates than a car battery and includes vibration and cycling resistive separators. The low maintenance and maintenance free construction reduces gas emitted from the battery resulting in elimination of corrosion around the terminals and lowers the ventilation requirements. Backed by a 2 year warranty this high performance product has a proven record in NZ.

### MARINE ENGINE STARTING Battery Specification (Hella Endurant Boatmaster)

Type	Detail	Assy	Term	Length	Width	Height	CCA	MCA	Res Cap	A/Hrs
M22/370	12V	R	D/F	240	174	213	370	460	85	48
M22/460	12V	R	D/F	240	174	213	460	570	110	60
M24/520	12V	R	STD	260	170	225	520	650	130	65
M24/580	12V	R	STD	260	170	225	580	700	140	75
M27/660	12V	R	STD	304	172	225	660	790	160	80

### MARINE MAINTENANCE FREE

NMF22/430	12V	R	D/F	240	174	213	430	540	78	48
NMF24/500	12V	R	D/T	260	174	225	500	630	108	60
NMF24/680	12V	R	D/T	260	174	225	680	810	137	75
NMF27/630	12V	R	D/T	304	173	225	630	760	150	75
NMF27/780	12V	R	D/T	304	173	225	780	910	170	80
NMF31/930	12V	R	STD	330	173	238	930	1060	200	100

## CRANKMASTER

HELLA ENDURANT CRANKMASTER is a high performance engine starting battery. Using state of the art computer controlled manufacturing technology this product provides engine cranking power, around 50% more than the regular equivalent size and is supported by a 2 year warranty against faulty workmanship or materials. The deep pocket envelope separators, CompuCast grids coupled with maintenance free design make this the premium performance battery second to none in NZ.

### HIGH PERFORMANCE MARINE ENGINE START Battery Specification (Hella Endurant Crankmaster)

(Hella Endurant Crankmaster is not to be used in a cyclic application - Pure Engine Start only)

Type	Detail	Assy	Term	Length	Width	Height	CCA	MCA	Res Cap	A/Hrs
CM615	12V	R	STD	208	171	205	615	745	94	0
CM615L	12V	L	STD	208	171	205	615	745	94	0
CM680	12V	R	D/T	260	174	225	680	810	137	0
CM680L	12V	L	D/T	260	174	225	680	810	137	0
CM1000	12V	C*	STD**	276	178	229	1000	1100	120	0
CM780	12V	R	D/T	304	173	225	780	910	170	0
CM780L	12V	L	D/T	304	173	225	780	910	170	0
CM930	12V	R	STD	330	173	238	930	1060	200	0
CM1100	12V	C*	STD	330	171	241	1100	1260	200	0
CM1450	12V	3R	STD	527	279	254	1450	1790	465	0

\*Terminals mounted in centre of lid \*\*Also has side mounted terminals

## LOADMASTER

HELLA ENDURANT LOADMASTER is a premium grade commercial engine starting battery. The robust cell construction makes the batteries resistant to failure caused by vibration and cycling. HCB Technologies insists on the highest in plate and performance specification available. Specification comparison with competitive product shows the high material content in the Loadmaster range goes to providing higher performance and maximum life. Hella Endurant Loadmaster batteries come with a 2 year free replacement warranty and are suitable for Marine Engine starting applications.

### MARINE PERFORMANCE START Battery Specification (Hella Endurant Loadmaster)

Type	Detail	Assy	Term	Length	Width	Height	CCA	MCA	Res Cap	A/Hrs
L48/17	12V	R	STD	345	175	240	640	N/A	182	N/A
N120	12V	R	STD	505	183	236	800	N/A	220	120
N150	12V	R	STD	508	222	236	900	N/A	295	150
N200	12V	R	STD	525	281	243	1100	N/A	400	200

### KEY

D/F: Dual Fit Terminal    STD: Tapered Post    Side: Side Terminal    PP: Pencil Post    Lug: Lug Terminal    UP: Universal Post  
 CCA: Cold Cranking Amps    A/Hrs: Ampere Hours    MCA: Marine Cranking Amps    Res Cap: Reserve Capacity    D/C: Deep Cycle    D/T: Dual Terminal  
 (20 Hour rate)

Specifications shown on this spec sheet are subject to change without notification. Performance ratings are supplied by the manufacturers of the product. Methods of testing are up to world standards and are in line with normal battery industry procedures.

# MARINE DEEP CYCLE BATTERIES

## CYCLEMASTER

HELLA ENDURANT CYCLEMASTER is a high integrity deep cycle battery. With plate grids ranging from 2.2mm to 5mm in thickness plus glassmat separators and hotmet cell group bonding, this robust construction provides a good cycle life and resistance to corrosion when subjected to top of charge and float duty charging voltages. The Hella Endurant Cyclemaster range has proven to be extremely reliable in a variety of applications.

### MARINE DEEP CYCLE Battery Specification (Hella Endurant Cyclemaster) – Flooded Type

Type	Detail	Assy	Term	Length	Width	Height	Wgt/kg	CCA	A/Hrs	
MDC22NF/45	12V	D/C	L	STD	244	135	225	13	N/A	45
MDCU1/35	12V	D/C	R	LUG	195	131	183	11	N/A	35
MDC/62N	12V	D/C	L	UP	241	140	230	15	N/A	62
MDC22/65	12V	D/C	L	D/F	240	170	218	16	300	65
MDC24/85	12V	D/C	R	UP*	270	170	250	19	515	85
MDC27/105	12V	D/C	R	UP*	318	170	250	22	575	105
MDC31/130	12V	D/C	C*	UP*	330	171	263	31	685	130
MDCBD/240	12V	D/C	3R	STD	527	279	250	59	1000	240

\*Has 17mm S/S Stud which can be cut off

### MARINE & INDUSTRIAL DEEP CYCLE Battery Specification (Hella Endurant Cyclemaster) – Flooded Type

Type	Detail	Assy	Term	Length	Width	Height	Wgt/kg	CCA	A/Hrs	
R220	6V	D/C	L6	UP*	260	180	279	29	N/A	220
R245	6V	D/C	L6	UP	260	180	302	31	N/A	245
L16	6V	D/C	L6	UP	298	178	419	51	N/A	375
8V	8V	D/C	L6	UP	260	180	279	29	N/A	165
J145	12V	D/C	L	D/F	346	171	283	N/A	145	
J185	12V	D/C	L	D/F	381	178	371	N/A	190	

\*Has 17mm S/S Stud which can be cut off

## GELMASTER

HELLA ENDURANT GELMASTER is a Valve Regulated Lead Acid battery range in which the electrolyte is immobilised with the cells using the Gelled Electrolyte Technology. Using a valve in the top of each cell and advanced plate chemistry, the gases produced during use are recombined within the cell making the batteries totally maintenance free requiring no cell top up during their lifetime. This range provides good cold cranking performance and excellent cycle life making it well suited for engine start or lighting/accessory loads.

### MARINE DEEP CYCLE Battery Specification (Hella Endurant Gelmaster) – VRLA Gel Type

Type	Detail	Assy	Term	Length	Width	Height	Wgt/kg	CCA	A/Hrs	
GC2	6V	D/C	L6	D/F	260	181	276	33	585	180
GU1H	12V	D/C	R	LUG	211	130	184	11	215	32
G22NF	12V	D/C	L	D/F	238	140	235	18	245	51
G24	12V	D/C	R	UP	276	171	251	25	410	74
G27	12V	D/C	R	UP	324	171	251	29	505	87
G31DT	12V	D/C	C*	UP	329	171	238	32	550	98
G40	12V	D/C	3R	STD	527	216	254	60	1050	183
G80	12V	D/C	3R	STD	527	279	254	73	1265	225

\*Terminals mounted in the centre of the lid

## SEAMASTER

HELLA ENDURANT SEAMASTER is a Valve Regulated Lead Acid battery specially designed for engine starting and the long deep discharge typical of marine applications. The maintenance free AGM (Absorb Glass Mat) design immobilises the electrolyte making the Seamaster range spill-proof and leak-proof. This range provides good cold cranking performance and excellent cycle life making it well suited for engine start or lighting/accessory loads.

### MARINE DEEP CYCLE Battery Specification (Hella Endurant Seamaster) – VRLA AGM Type

Type	Detail	Assy	Term	Length	Width	Height	Wgt/kg	CCA	A/Hrs	
AU1H	12V	D/C	R	LUG	211	130	184	11	240	32
A22NF	12V	D/C	L	D/F	238	140	235	18	280	55
A24	12V	D/C	R	UP	276	171	251	24	470	79
A27	12V	D/C	R	UP	324	171	251	29	580	92
A31DT	12V	D/C	C*	UP	329	171	238	31	650	105
A4D	12V	D/C	3R	STD	527	216	254	59	1100	200
A8D	12V	D/C	3R	STD	527	279	254	72	N/A	245

### MARINE DEEP CYCLE - 2 Volt Cells - Flooded and VRLA Type

An extensive range of 2volt cells are available both in Flooded and VRLA (Valve Regulated Lead Acid) offering sizes from 200-3000 amp/hrs. For further details and specifications on this range contact HCB Technologies Ltd.