

# ULTRA **ESAN** BATTERY

*Positive Energy*



The **WORLD**  
Gets  
its  
Power  
from **US!**

**SAKA**





*Positive Energy*

## ESAN BATTERY AND MATERIALS INDUSTRY & TRADE INC.

**Esan Battery** was established in 1978 in Istanbul and started the production of batteries under the title **Esan Battery** and Materials Industry & Trade Inc. For many years, the company continued manufacturing operations in 4. Levent, as a requirement of increasing business volume and growing need of organizational structure in 1999 a new production facility was built in Ayazaga.

**Esan Battery** continues operations with its growing sales network and organization with more than 200 dealers and after sale service points in Turkey and has 65% of export rate including more than 50 countries in 3 continents. As **Esan Battery**, we moved all of our management and operation teams and production lines to our hi-tech facilities located in Gebze in 2016 and we are carrying on our activities with 41 years of industrial experience in domestic and over-seas markets and with the acceptance of customer satisfaction and environmental awareness as a principle.

**Esan Battery** has been implementing and maintaining a management system that is certified to fulfill the requirements of ISO 9001 Quality Management System and additionally certified for ISO 140001 Environmental Management System and OHSAS 180001 Occupational Health and Safety Assessment Series. **Esan Battery** officially registered as R&D Center by the Ministry of Industry and Technology in 2018 and continues to work on IATF 16949:2016 Automotive Quality Management Certification and ISO 10002 Customer Satisfaction Certification.

We have the roadmap for Industry 4.0, smart production systems, production robots and automatic control systems, monitoring systems, hi-tech charging units, special design machines and a lot more... Now we are the pioneer in technology of battery industry in Turkey.

As it continues to activities with the motto "**Positive Energy**", **Esan Battery** will maintain his pioneering role with it's visionary investments and qualified work force in future.





**Charge level indicator  
integrated on lid**

**Terminal design  
for new battery**

**Ergonomic battery  
handle design**

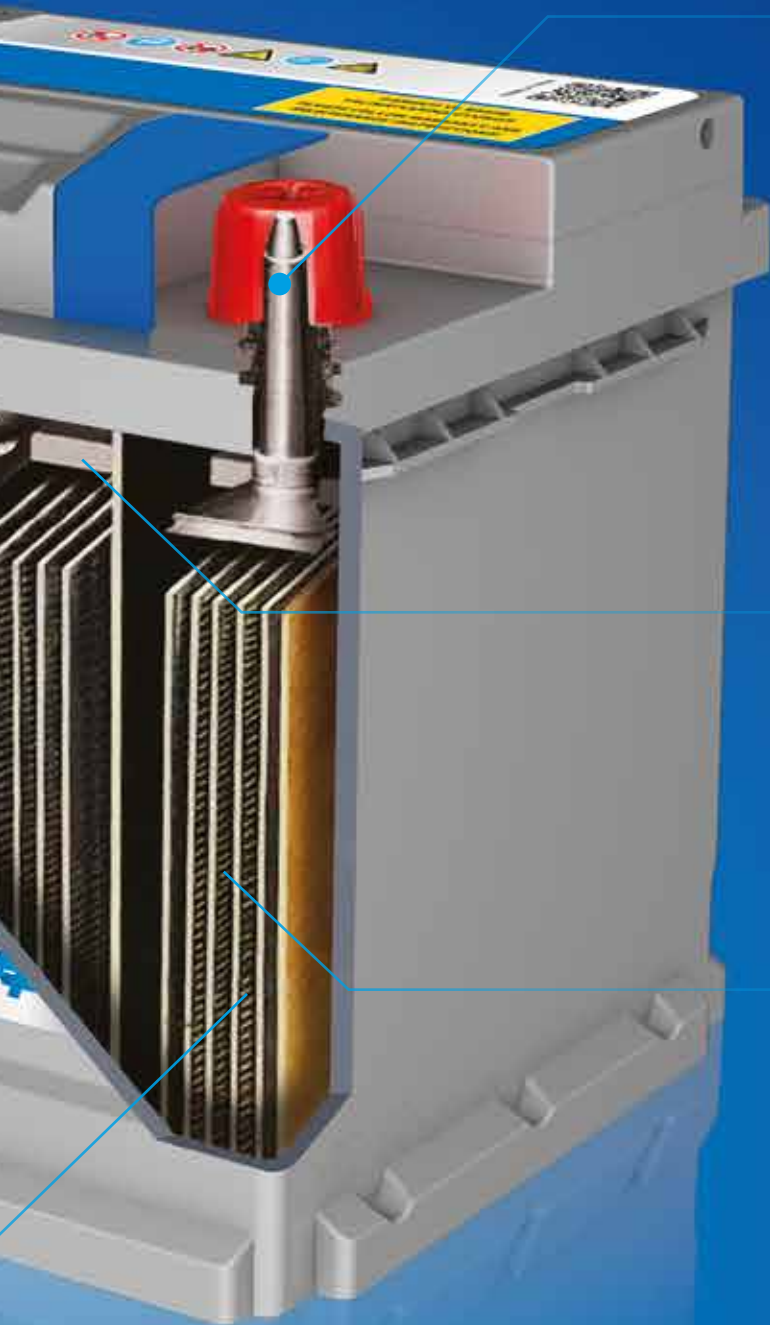
**Ca-Ca  
technology**

**Negative  
plate with PE  
envelope**





*Positive Energy*



**Special alloy  
high strength terminal**

**Special alloy intercell  
connections**

**High corrosion-resistant  
positive plate with  
strengthened formula**





Positive Energy

**Step to Foreign Market**  
Esan Battery, which attaches important to development each period and exports 65% of its production to more than 40 countries currently in Europe, Asia and Africa continents, opened to foreign market in **1997**.



**World Brand**  
It continued its branding process starting with **Esan** in **1985** with **Energy, Vega** and **Pure Energy**.



**Young Energy is In Charge**  
It started to work actively as second generation in **1998**.



**Establishment Years**  
Foundations of **Esan Battery** were laid in 4.Levent by Teoman Sunkar and Mehmet Reşat Birmiş, in **1978**. The Company has been continuing its production activities for many years.



**Expansion of Work Area**  
It carried its entire production and management activities to its modern facilities located in Şişli Ayazağa to perform increasing work load and growing organization structure requirement in **1999**.



### Star of The Sector

Investments were made on industry 4.0, efficiency, robot usage, automation, ergonomics and new generation environmental protection systems continuing in 2017 in Gebze facilities, and state-of-the-art and high technologies were gained.

### Sector Leader

It became 1st and founder member of AKÜDER (Association of Accumulator and Recycling Industrialists) authorized by the Ministry of Environment and Forestry in **2005**.



### Solution Center

It started to produce fully closed accumulator in **2008**.



2010



### Step for Joint-stock Company

Esan Battery and Materials Industry & Trade Inc. was established in **2010** following target of reinforcing corporate identity.



### Importance Attached to Quality

**Esan Battery**, which completed ISO 9001 Quality Management System studies in **2006** and which gained right to receive document, completed ISO 14001 Environmental Management System and OHSAS 18001 Occupational Health and Safety certification studies.

### Capacity Increase

**Esan Battery**, completing exmet production line investment that it imported from Canada and America in **2011**, reached **1 million and 200 thousand** production capacity per year.

**1MILLION**

### Technology Investments

It made investment on line automation, robot usage and new technologies on accumulator systems within the scope of modernization of current production lines in **2014**.



### Superior Quality

Importance that **Esan Battery** attached on each area as of the date when it was established was registered with its membership to Turkish Quality Association (KalDer) in **2015**.

### Firm Steps in The Light of New Targets

It started production as of September of **2016** in its new facilities established on an area of 20 thousand square meters in Gebze Organized Industrial Zone, and **Esan Battery**, continuing to carry out activity with its target of production capacity of 2.500.000 number/year, aims at ranking among second 500 industrial companies in **2017** and among first 500 industrial companies in **2019**.

### ISO 10002

Completed ISO 10002 "Customer Satisfaction Management System" studies in 2018 and which gained right to receive document

**ISO**

2020



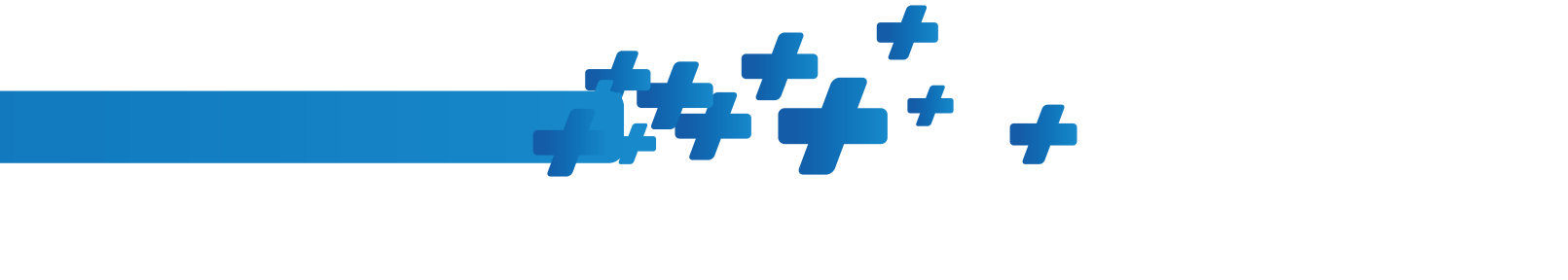
### Sustainable Excellence

Esan Battery is one of the most successful companies of Turkey in the sector with its endorsement, exportation, young and dynamic employees. Esan Battery, which continuously reinforced its position with awards it received in national and international platform, continues to carry out all of its activities with environmental protection principle, sense of social responsibility, employee and customer satisfaction.

Esan Battery proceeds fast on its way that it started in 1978 with the target of becoming a world brand with its young and dynamic team and thanks to its increasing sales network and organization, local dealer, sub dealer and after sales service points in nationwide.

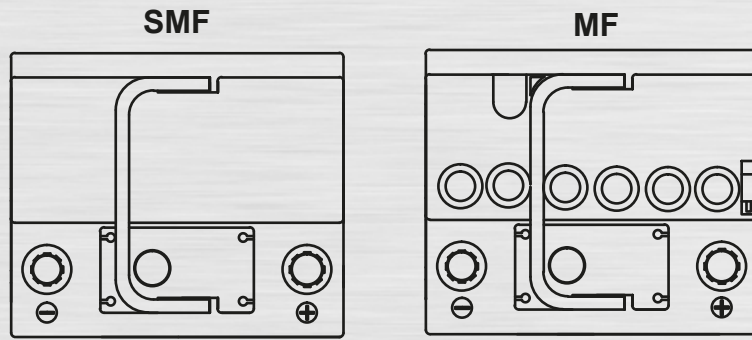




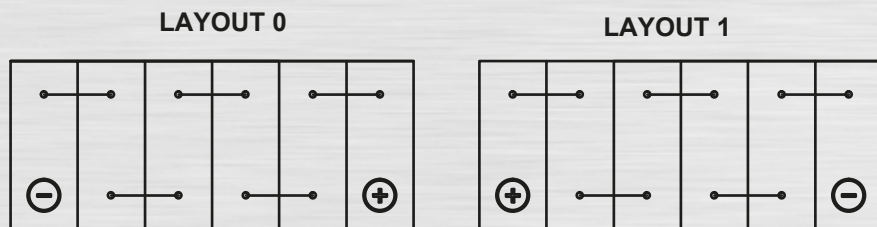




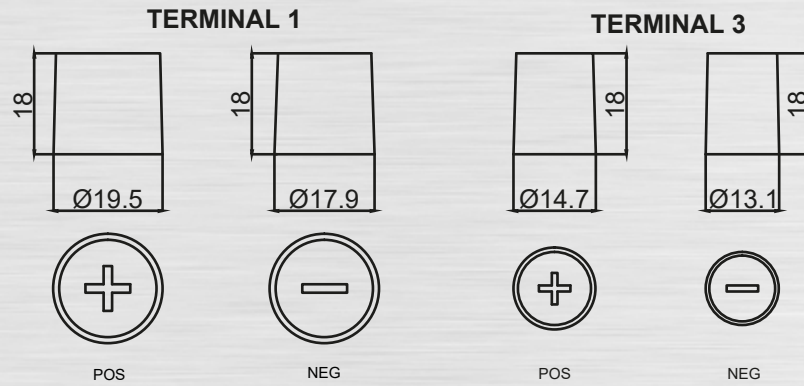
Lid  
Types



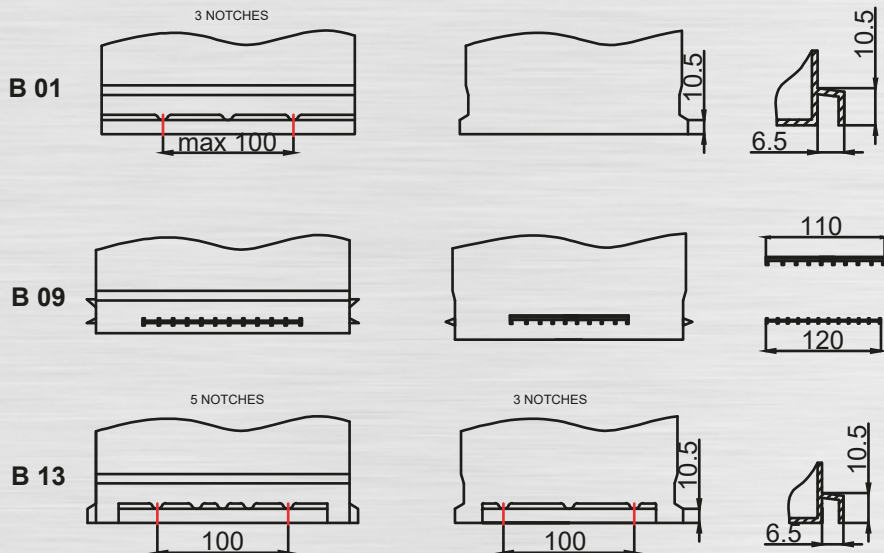
Layout  
Types



Terminal  
Types



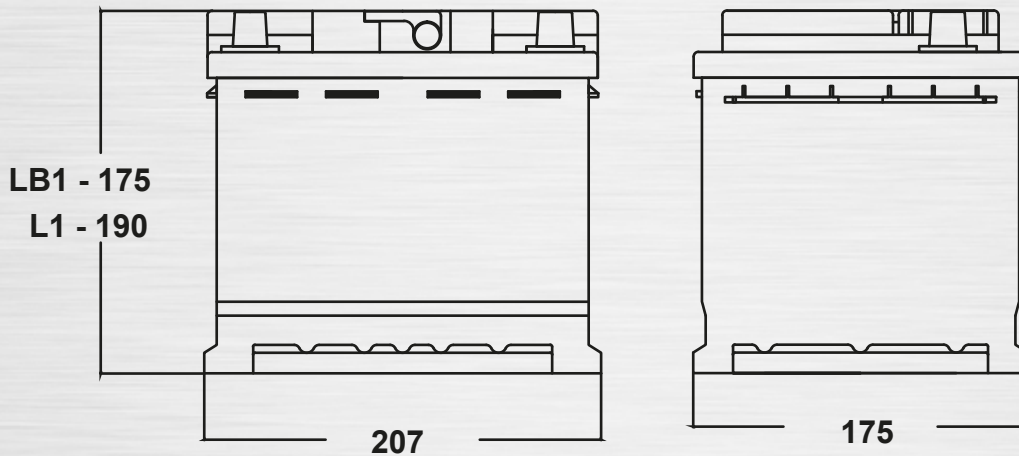
Hold-down  
Types





## LB1 & L1 EUROPEAN VEHICLES

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
<b>LB1</b>	207	175	175	B13	80	120
<b>L1</b>	207	175	190	B13	80	120



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
<b>LB1</b>	LB1 044 10B13	S LB1 044 10B13	<b>44</b>	360	220	1	0/1	B13
	LB1 045 10B13	S LB1 045 10B13	<b>45</b>	360	220	1	0/1	B13
	LB1 050 10B13	S LB1 050 10B13	<b>50</b>	420	230	1	0/1	B13
<b>L1</b>	L1 044 10B13	S L1 044 10B13	<b>44</b>	360	220	1	0/1	B13
	L1 045 10B13	S L1 045 10B13	<b>45</b>	360	220	1	0/1	B13
	L1 050 10B13	S L1 050 10B13	<b>50</b>	420	230	1	0/1	B13

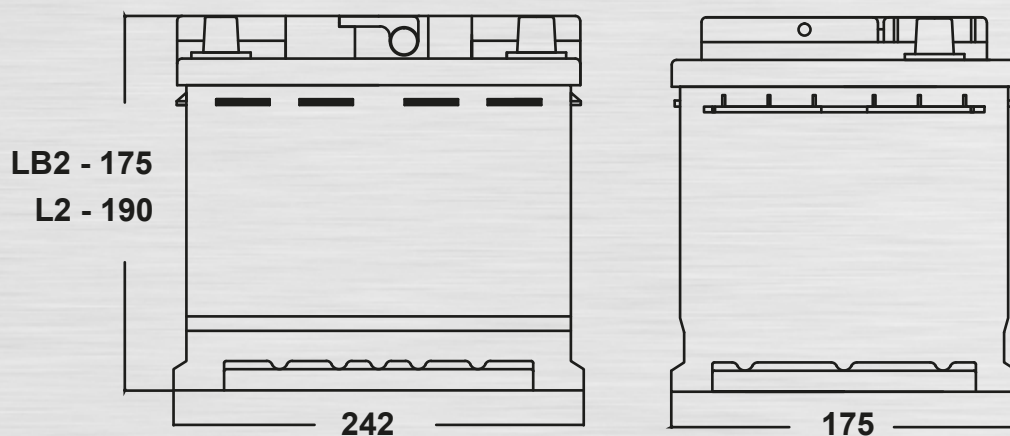


# LB2 & L2

## EUROPEAN VEHICLES



Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
<b>LB2</b>	242	175	175	B13	72	112
<b>L2</b>	242	175	190	B13	72	112



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
<b>LB2</b>	LB2 050 10B13	S LB2 050 10B13	<b>50</b>	420	230	1	0/1	B13
	LB2 055 10B13	S LB2 055 10B13	<b>55</b>	460	240	1	0/1	B13
	LB2 060 10B13	S LB2 060 10B13	<b>60</b>	540	255	1	0/1	B13
	LB2 062 10B13	S LB2 062 10B13	<b>62</b>	550	290	1	0/1	B13
<b>L2</b>	L2 050 10B13	S L2 050 10B13	<b>50</b>	420	230	1	0/1	B13
	L2 055 10B13	S L2 055 10B13	<b>55</b>	460	240	1	0/1	B13
	L2 060 10B13	S L2 060 10B13	<b>60</b>	540	255	1	0/1	B13
	L2 062 10B13	S L2 062 10B13	<b>62</b>	550	290	1	0/1	B13

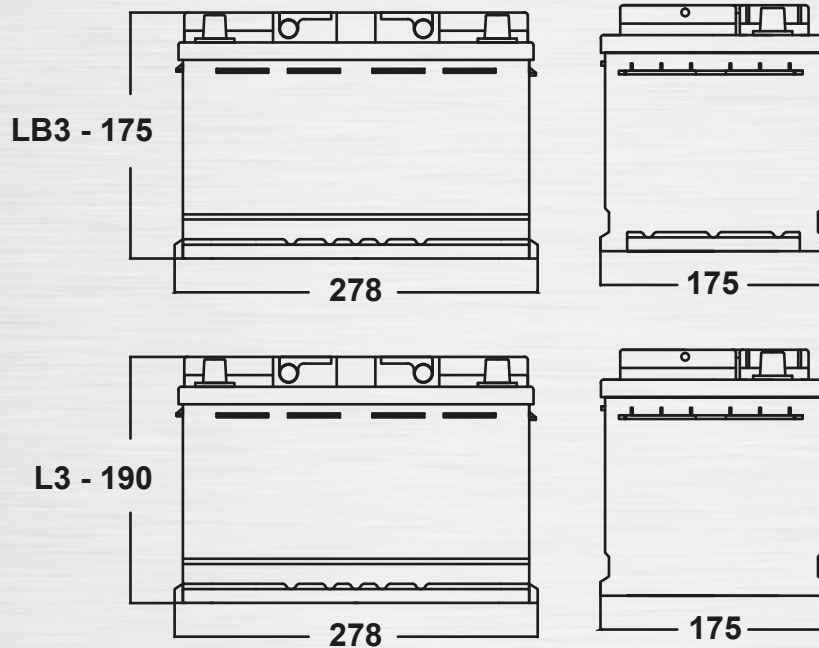
2,500,000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



## LB3 & L3 EUROPEAN VEHICLES

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
<b>LB3</b>	278	175	175	B13	64	100
<b>L3</b>	278	175	190	B01	64	100



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
<b>LB3</b>	LB3 066 10B13	S LB3 066 10B13	66	590	300	1	0/1	B13
	LB3 072 10B13	S LB3 072 10B13	72	640	360	1	0/1	B13
	LB3 074 10B13	S LB3 074 10B13	74	650	380	1	0/1	B13
	LB3 075 10B13	S LB3 075 10B13	75	650	380	1	0/1	B13
<b>L3</b>	L3 066 10B01	S L3 066 10B01	66	590	300	1	0/1	B01
	L3 072 10B01	S L3 072 10B01	72	640	360	1	0/1	B01
	L3 074 10B01	S L3 074 10B01	74	650	380	1	0/1	B01
	L3 075 10B01	S L3 075 10B01	75	650	380	1	0/1	B01

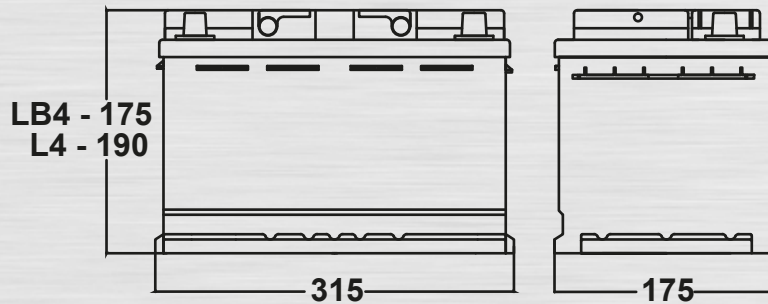


# LB4 & L4

## EUROPEAN VEHICLES



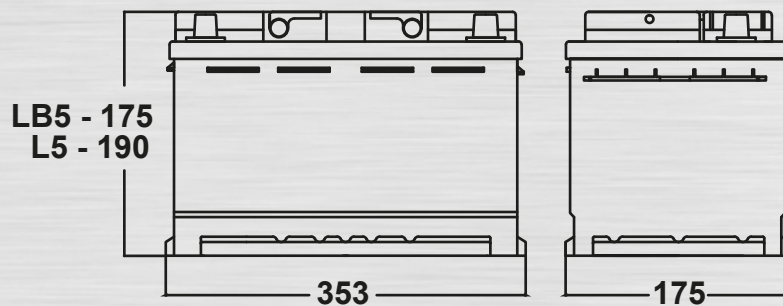
Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
LB4	315	175	175	B13	48	54
L4	315	175	190	B13	48	54



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
LB4	LB4 080 10B13	S LB4 080 10B13	80	700	410	1	0/1	B13
L4	L4 080 10B13	S L4 080 10B13	80	700	410	1	0/1	B13

# LB5 & L5

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
LB5	353	175	175	B13	48	54
L5	353	175	190	B13	48	54



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
LB5	LB5 088 10B13	S LB5 088 10B13	88	720	420	1	0/1	B13
	LB5 100 10B13	S LB5 100 10B13	100	800	480	1	0/1	B13
L5	L5 088 10B13	S L5 088 10B13	88	720	420	1	0/1	B13
	L5 100 10B13	S L5 100 10B13	100	800	480	1	0/1	B13

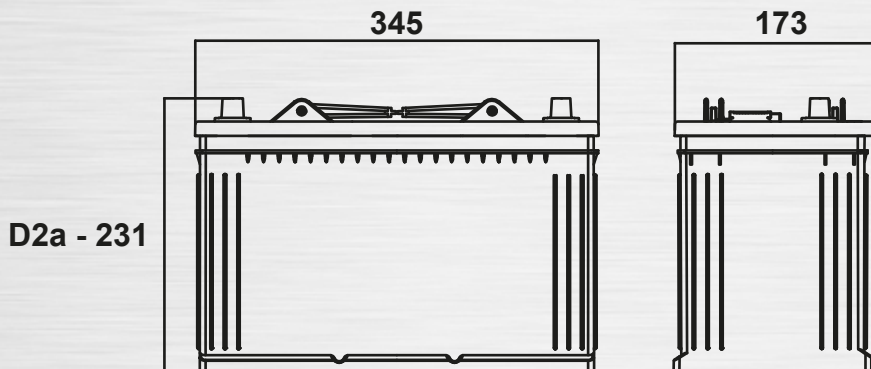
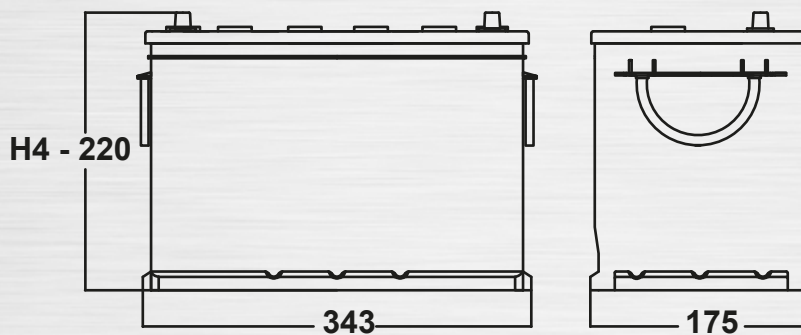
2.500.000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



## H4 & D2a & D3 EUROPEAN VEHICLES

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
H4	343	175	220	B03	48	54
D2a	345	175	235	B01	48	54
D3	349	175	285	B00	48	54



Box Type	Product Number	Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF		EN	DIN			
H4	H4 105 10B03	105	760	440	1	0/1	B03
	H4 110 10B03	110	780	490	1	0/1	B03
D2a	D2 110 10B01	110	780	460	1	0	B01
D3	D3 128 10B00	128	860	500	1	0	B00

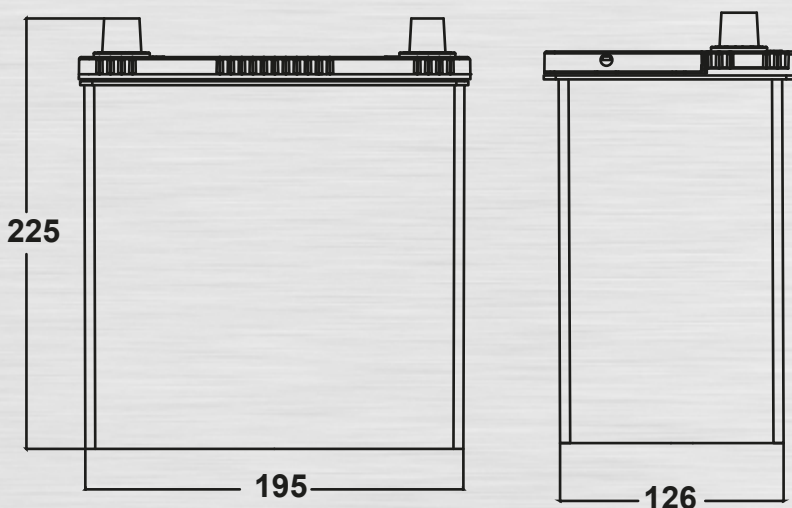


# NS40 (B19)

ASIAN VEHICLES



Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
NS40	195	126	225	B00	108	150



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
NS40	NS40 035 30B00	S NS40 035 30B00	35	240	150	3	0/1	B00
	NS40 040 30B00	S NS40 040 30B00	40	270	170	3	0/1	B00
	NS40 042 30B00	S NS40 042 30B00	42	330	200	3	0/1	B00

2,500,000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS

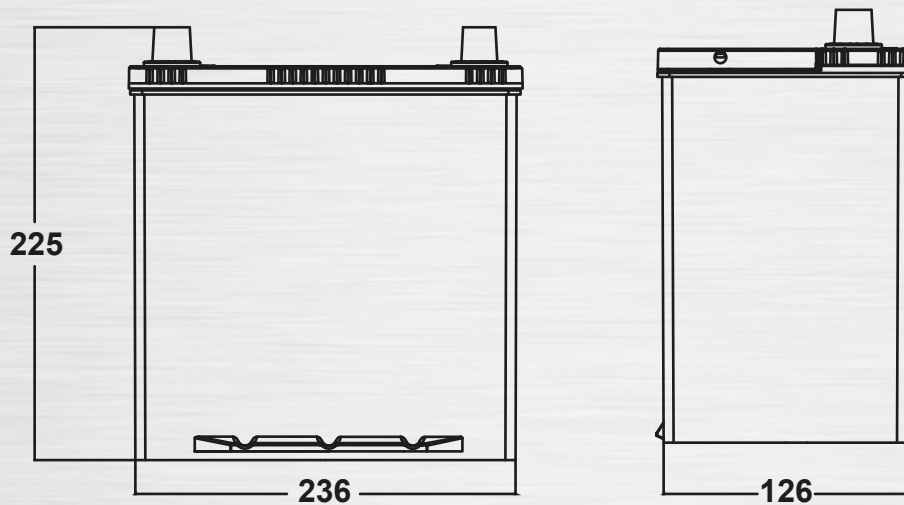




# NS60 (B24)

ASIAN VEHICLES

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
NS60	236	126	225	B00	90	135



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
NS60	NS60 045 30B00	S NS60 045 30B00	45	360	220	3	0/1	B00
	NS60 045 10B00	S NS60 045 10B00	45	360	220	1	0/1	B00

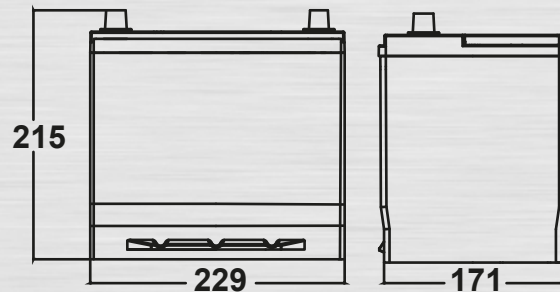


# D23

ASIAN VEHICLES



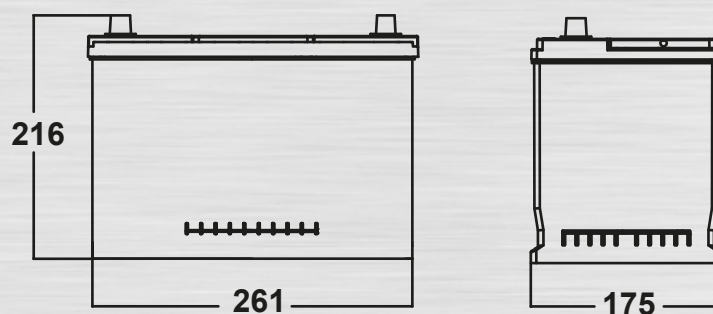
Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
<b>D23</b>	229	171	215	B01	80	93



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
<b>D23</b>	D23 055 10B01	S D23 055 10B01	<b>55</b>	460	240	1	0/1	B01
	D23 060 10B01	S D23 060 10B01	<b>60</b>	540	255	1	0/1	B01

# N50 (D26)

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
<b>N50</b>	261	175	216	B09	64	100



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
<b>N50</b>	N50 070 10B09	S N50 070 10B09	<b>70</b>	600	340	1	0/1	B09

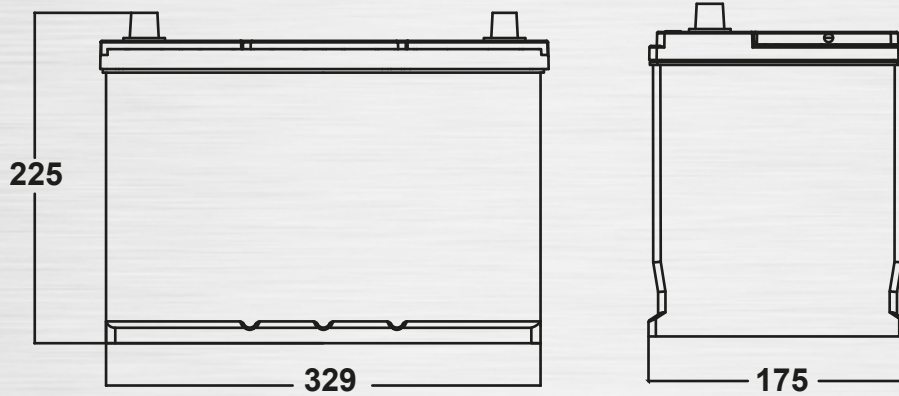
2,500,000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



## N70 (D31) ASIAN VEHICLES

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
N70	329	175	225	B01	36	54



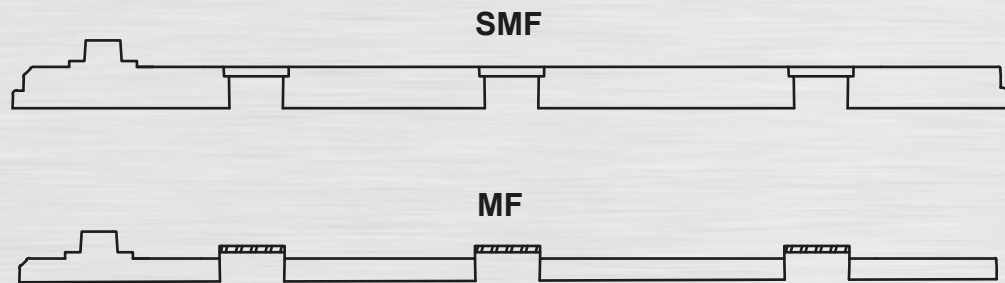
Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
N70	N70 090 10B01	S N70 090 10B01	90	720	370	1	0/1	B01
	N70 100 10B01	S N70 100 10B01	100	800	480	1	0/1	B01



# HEAVY DUTY



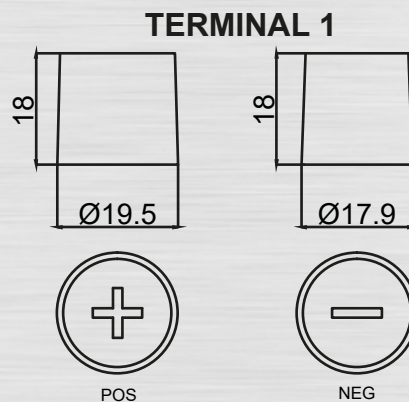
## Lid Types



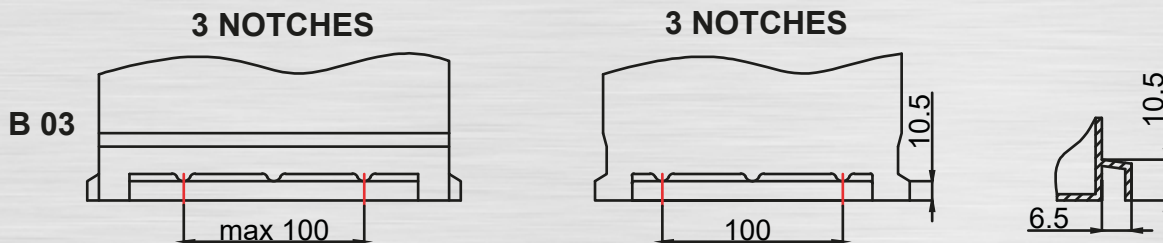
## Layout Types



## Terminal Types



## Hold-down Types



2.500.000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



## A (D4A) HEAVY DUTY

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
A	512	180	219	B03	24	36



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
A	A 120 13B03	S A 120 13B03	120	850	420	1	3/4	B03
	A 135 13B03	S A 135 13B03	135	950	450	1	3/4	B03



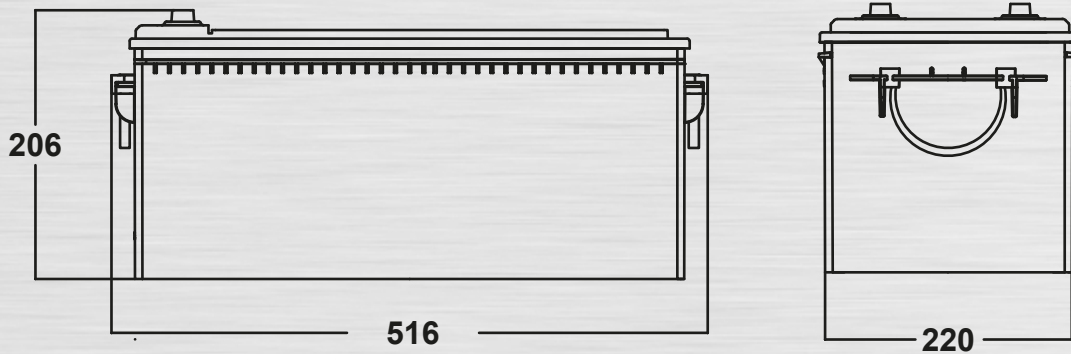
ESAN BATTERY acts on the principle of respect for nature in all its activities and in all decisions, this principle is taken into consideration. To create this awareness among the employees and other stakeholders, trainings and awareness-raising activities are organized.



# B (D5A) HEAVY DUTY



Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
<b>B</b>	516	220	206	B00	28	30



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
<b>B</b>	B 150 13B00	S B 150 13B00	<b>150</b>	1000	500	1	3/4	B00
	B 165 13B00	S B 165 13B00	<b>165</b>	1100	550	1	3/4	B00
	B 180 13B00	S B 180 13B00	<b>180</b>	1150	600	1	3/4	B00
	B 190 13B00	S B 190 13B00	<b>190</b>	1180	620	1	3/4	B00

<p>Turkish Standart Institution</p> <p>Turkey Standarts Certificate of Conformity</p>	<p>ISO 9001</p> <p>Quality Management System</p>	<p>ISO 14001</p> <p>Environmental Management System</p>	<p>OHSAS 18001</p> <p>Occupational Health and Safety</p>	<p>ISO 10002</p> <p>Quality Management System</p>	<p>GOST-R</p> <p>Rusia Standarts Certificate of Conformity</p>	<p>Acid Resirculation Investment</p> <p>Quality Management System</p>	<p>Expanded Metal Technology Investment</p> <p>Canada 2011</p>	<p>IATF 16949</p> <p>In Progress</p>	<p>Lead Analysis laboratory</p>	<p>Acid Analysis laboratory</p>	<p>R-D Center Set Up Studies</p>
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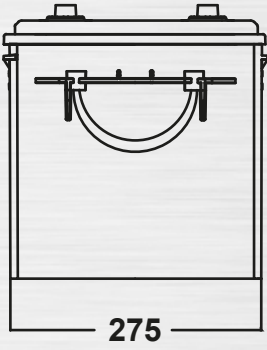
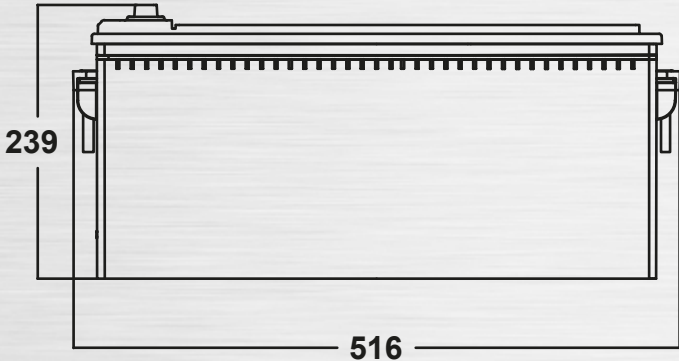
2.500.000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



# C (D6) HEAVY DUTY

Box Type	Dimensions (mm)			Hold-down	Pieces / Pallet	
	L	W	H		Container	Truck
C	516	275	239	B00	24	24



Box Type	Product Number		Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
	MF	SMF		EN	DIN			
C	C 200 13B00	S C 200 13B00	200	1200	630	1	3/4	B00
	C 210 13B00	S C 210 13B00	210	1220	650	1	3/4	B00
	C 225 13B00	S C 225 13B00	225	1250	700	1	3/4	B00
	C 240 13B00	S C 240 13B00	240	1400	750	1	3/4	B00

## CERTIFICATES



# START - STOP

EFB



Box Type	Product Number	Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
			EN	DIN			
L2	S L2 063 10B13	63	600	360	1	0	B13
L3	S L3 072 10B13	72	720	430	1	0	B13
L4	S L4 084 10B13	84	800	480	1	0	B13
C	S C 225 13B00	225	1250	700	1	3	B00

# START - STOP

AGM



Box Type	Product Number	Capacity Ah/20h	CCA EN	Terminal	Lay-out	Hold-down
L3	L3 070 10B13	70	760	1	0	B13
L4	L4 095 10B13	95	900	1	0	B13

You have Positive Energy with Esan Battery!



2.500.000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

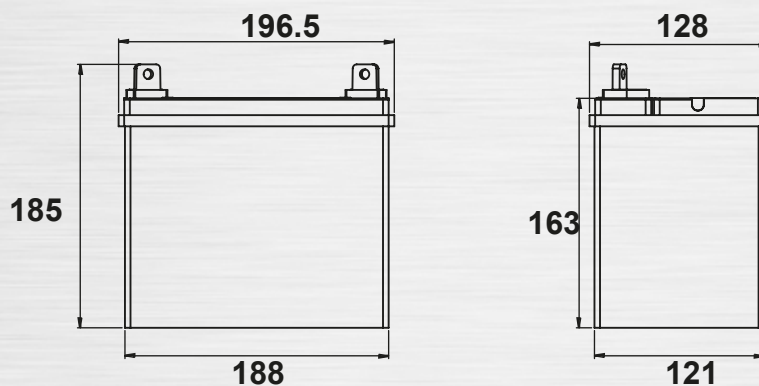
PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



## SPECIAL TYPE



Box Type	Dimensions (mm)			Hold-down
	L	W	H	
U1	188	121	185	B00

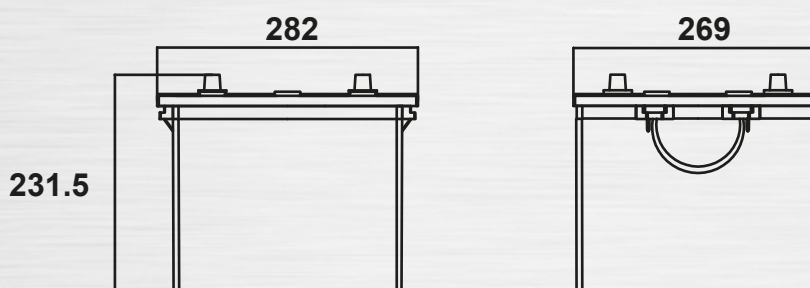


Box Type	Product Number	Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
			EN	DIN			
U1	S U1 024 40B00	24	300	180	4	0	B00

## TANK



Box Type	Dimensions (mm)			Hold-down
	L	W	H	
D7	286	270	230	B00



Box Type	Product Number	Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down
			EN	DIN			
D7	D7 100 12B00	100	640	380	1	2	B00
D7	D7 125 12B00	125	800	480	1	2	B00



# Marin

# PREMIUM



motor yacht



caravan



generator



solar panel



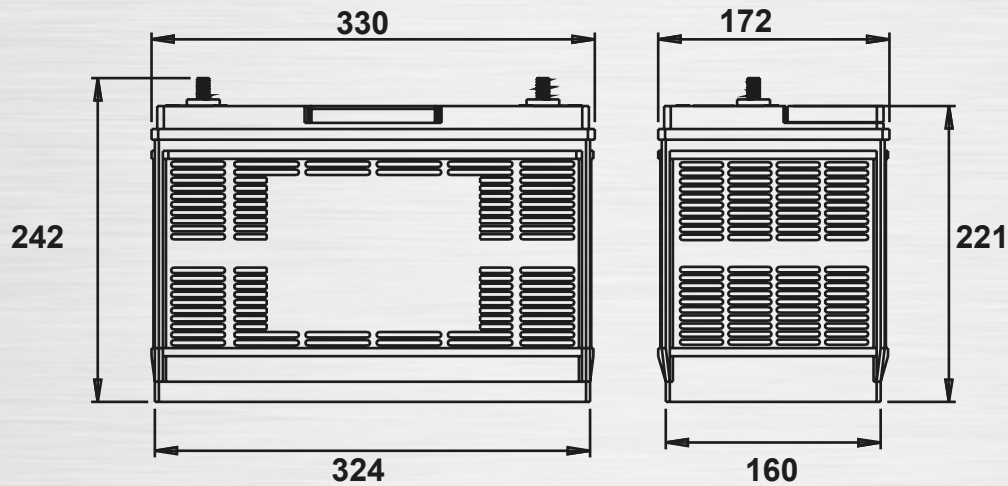
2.500.000 BATTERY/YEAR PRODUCTION CAPACITY WITH EXPANDED METAL TECHNOLOGY.

PRODUCTION MANAGEMENT CONFIRMING TO ISO 9001, ISO 14001 AND OHSAS 18001 STANDARDS



## MARINE

Box Type	Dimensions (mm)			Hold-down
	L	W	H	
GR31	330	172	241	B00



Box Type	Product Number	Capacity Ah/20h	CCA		Terminal	Lay-out	Hold-down	Explanations
			EN	DIN				
L2	S L2 062 10B13	62	550	290	1	0	B13	Starter
N50	S N50 085 10B09	85	620	340	1	0	B09	Starter
GR31	GR31 11589B00	115	800	480	8	9	B00	Starter
A	S A 145 13B03	145	950	550	1	3	B03	Starter
B	S B 185 13B03	185	1150	600	1	3	B03	Starter
C	S C 230 13B00	230	1250	700	1	3	B00	Starter
A	S A 140 13B03	140	900	500	1	3	B03	Deep Cycle
B	S B 180 13B03	180	1100	550	1	3	B03	Deep Cycle
C	S C 225 13B00	225	1200	630	1	3	B00	Deep Cycle





*Positive Energy*



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