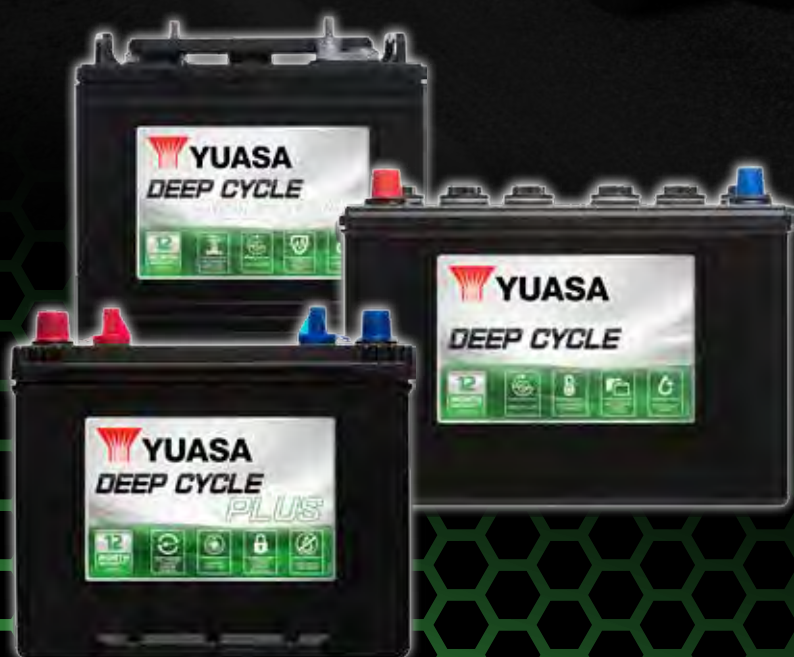




YUASA BATTERY



DEEP CYCLE BATTERIES



LONG-LASTING, DEPENDABLE DEEP CYCLE POWER

YUASA DEEP CYCLE BATTERIES ARE MANUFACTURED USING THE TOUGHEST INTERNAL COMPONENTS AND LATEST DESIGN FEATURES TO DELIVER LONG-LASTING, DEPENDABLE DEEP CYCLE POWER.

A comprehensive selection of Flooded and AGM batteries built strong for New Zealand's harsh environment and tough operating conditions. Designed to provide superior deep cycling performance in a diverse range of recreational & commercial applications.



A PROVEN LEADER FOR STORED ENERGY SOLUTIONS.

Yuasa Batteries is part of the Century Yuasa group, our reputation for quality and innovation has been refined and demonstrated over many decades.

In this time we have developed the engineering expertise and technical know-how to deliver a range of batteries better suited to New Zealand's extreme climate and harsh conditions.

Today we pride ourselves in offering our customers a range of market leading products and services which continue to set new standards in technology and performance.

CHOOSING THE RIGHT BATTERY

DEEP CYCLE	PLUS	FLOODED	AGM	INDUSTRIAL
PERFORMANCE				
Long Cycle Life	●	● ●	● ● ●	● ● ● ●
Superior Deep Discharge Capabilities	●	● ●	● ● ●	● ●
Fast Recharging	● ●	● ●	● ● ●	● ●
Multi Angle Fit	-	-	● ● ●	-
Under Bonnet Use	● ● ●	● ● ●	-	-
Heat Tolerance	● ● ●	● ● ●	● ●	● ● ●
Low Gassing	● ●	-	● ● ●	-
Resistance to Vibration	● ●	● ●	● ● ●	● ●
Low Self-Discharge	● ●	●	● ● ●	●
APPLICATIONS				
Recreational Vehicles	●	●	●	●
Golf Carts	-	-	-	●
Golf Trundlers	-	-	●	-
Marine Systems	●	●	●	●
Caravan & Camper Trailers	●	●	●	●
4WD (under bonnet)	●	●	-	-
Dual Battery Systems	●	●	● ^	● ^
Solar Power Systems	-	●	●	●
Mobility Scooters	-	●	●	-
Industrial Applications	-	-	-	●

^Warranty void if mounted under bonnet



Deep Cycle Plus

The all-round dual purpose Deep Cycle battery with cycling and starting capabilities.

- » Superior cycle life
- » Designed to withstand repeated recharge and discharge cycles
- » Platelock™ technology providing shock and vibration resistance
- » Thicker plates for improved strength and durability



DUAL PURPOSE:
CYCLING & STARTING
CAPABILITY



SUPERIOR
CYCLE LIFE



PLATELOCK™
VIBRATION
RESISTANCE



MAINTENANCE
FREE DESIGN



RECREATIONAL
VEHICLES



MARINE
SYSTEMS



CARAVAN &
CAMPER
TRAILERS



4x4



DUAL BATTERY
SYSTEMS

ITEM ID	BATTERY TYPE	WARRANTY †	VOLTS	CCA -18°C	RC @ 25°C	AH @ 20HR	Dimensions (all measurements in mm)				POLARITY	WEIGHT (KG)	TERM. TYPE	HOLD DOWN	SPECIAL FEATURES
							L	W	H	TH					
DEEP CYCLE PLUS															
645200	24DCMF	12	12	600	135	82	260	171	202	225	D	18.60	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, SL, VR
645201	27DCMF	12	12	680	160	96	304	172	202	225	D	21.20	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, SL, VR
645202	30DCMF	12	12	680	200	110	330	173	217	239	D	25.00	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, SL, VR

† Conditions apply. Refer to individual warranty statements attached to each battery.

Car Batteries VS Deep Cycle Batteries

CAR BATTERIES ARE SPECIALLY DESIGNED TO PROVIDE A SHORT, SHARP BURST OF POWER IN ORDER TO CRANK OVER AND START THE VEHICLE'S ENGINE.

Only a relatively small portion of the battery's capacity is used and this is restored by the vehicle's alternator. Car batteries have thinner lead grids and active material to maximise plate surface area, delivering greater starting power. However they are not reliable for providing long periods of power.

Deep Cycle batteries are constructed using thicker battery plates and a denser active material, to withstand repeated charge and recharge cycles.

Rather than providing high bursts of power for short periods of time, they are specially designed to deliver sustained power with low current draw over extended periods of time. Repeated cycling does not cause the same level of damage that a car battery would sustain during the same process.



Deep Cycle Flooded

Reliable deep cycling performance in a diverse range of recreational and commercial applications.

- » Designed to withstand repeated recharge and discharge cycles
- » Superior deep discharge capabilities
- » Constructed with thicker plates, specialist antimonial lead alloys and denser active material for long lasting dependable power
- » Ideal for under bonnet use



LONG
CYCLE LIFE



IMPROVED HEAT
TOLERANCE



IDEAL FOR
DUAL BATTERY
SYSTEMS



MAINTAINABLE
DESIGN



RECREATIONAL
VEHICLES



MOBILITY
SCOOTERS



MARINE
SYSTEMS



CARAVAN &
CAMPER
TRAILERS



4x4



DUAL BATTERY
SYSTEMS

ITEM ID	BATTERY TYPE	WARRANTY †	VOLTS	AH @ 20HR	Dimensions (all measurements in mm)				POLARITY	WEIGHT (KG)	TERM. TYPE	HOLD DOWN	SPECIAL FEATURES
					L	W	H	TH					
DEEP CYCLE FLOODED													
641200	12DC	12	6	105	227	172	184	210	A	15.80	STD	-	GM, LM, VR
641204	47DC	12	12	50	235	175	210	225	C	17.10	TWIN	-	CH, CI, GM, LM, MIA, MR, PL, VR
641206	N70DC	12	12	75	305	175	225	225	D	25.10	STD	-	CH, LM, MIA, VR
INDUSTRIAL DEEP CYCLE													
641228	C105	12	6	225	264	181	245	276	A	29.79	W/NUT	-	LM, VR

† Conditions apply. Refer to individual warranty statements attached to each battery.

Ampere-Hour @ 20HR [Ah]

AH REFERS TO THE BATTERY'S STORAGE CAPACITY AND IS THE CURRENT A FULLY CHARGED BATTERY WILL DELIVER OVER A 20 HOUR PERIOD BEFORE THE VOLTAGE FALLS TO 10.50V AT 25°C.

The more accessories in use the more available energy consumed. Consumption of the battery's capacity is referred to as 'discharging' the battery.





Deep Cycle AGM

The ultimate in Deep Cycle performance, featuring Absorbed Glass Mat (AGM) technology. Ideal for multi angle and hard to reach fitments.

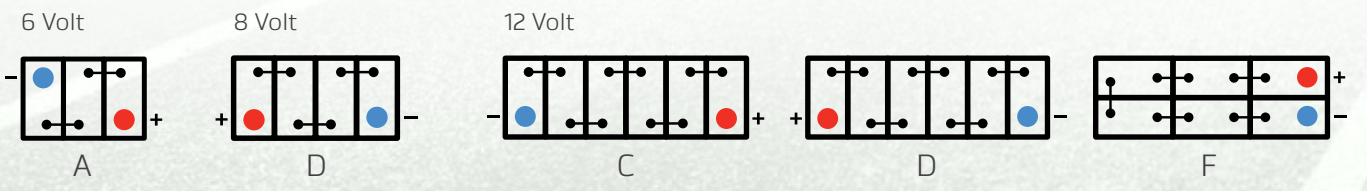
- » Long cycle life
- » Fast recharging capabilities
- » Designed to withstand repeated recharge and discharge cycles
- » Improved strength, durability and vibration resistance



ITEM ID	BATTERY TYPE	WARRANTY*	VOLTS	AH @ 20HR	Dimensions (mm)				POLARITY	WEIGHT (KG)	TERM. TYPE	HOLD DOWN	SPECIAL FEATURES
					L	W	H	TH					
DEEP CYCLE REC													
648002	REC22-12	12	12	22	181	76	167	167	C	15.30	M6 INSERT	-	AGM, CH, MF, VRLA
648003	REC36-12	12	12	36	196	130	169	169	D	27.00	M6 INSERT	-	AGM, CH, MF, VRLA
648000	REC50-12	12	12	50	197	165	175	175	C	6.40	M6 INSERT	-	AGM, CH, MF, VRLA
648001	REC80-12	12	12	88	259	167	213	213	D	11.20	M6 INSERT	-	AGM, CH, MF, VRLA
DEEP CYCLE AGM*													
648205	C12-55DA	12	12	55	229	138	210	235	D	18.00	M6 INSERT	-	AGM, CV, FA, MF, PV, VR
648203	C12-120DA	12	12	120	328	172	222	222	D	32.00	M8 INSERT	-	AGM, CV, FA, MF, PV, VR
648204	C12-270DA	12	12	270	520	268	220	225	F	74.00	M8 INSERT	-	AGM, CV, FA, MF, PV, VR
648202	LPC6-190	12	6	190	306	168	222	228	A	30.80	M6 INSERT	-	AGM, CH, MF, VR

* Conditions apply. Refer to individual warranty statements attached to each battery. * Only available in CENTURY brand.

Cell Assembly Layout



CALCULATING [Ah] REQUIREMENTS



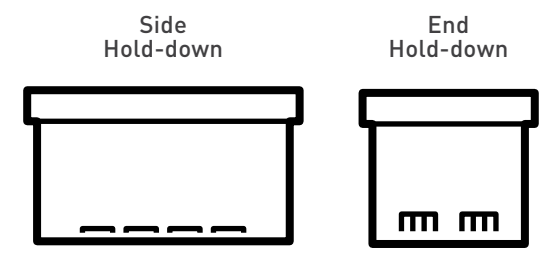
THE SIZE AND TYPE OF DEEP CYCLE BATTERY REQUIRED IS DEPENDENT ON THE APPLICATION AND CONDITIONS OF USE. IT IS IMPORTANT TO ENSURE THERE IS SUFFICIENT BATTERY CAPACITY TO POWER THE EQUIPMENT BEING USED.

Use the following guide to help determine the right size battery for your needs:

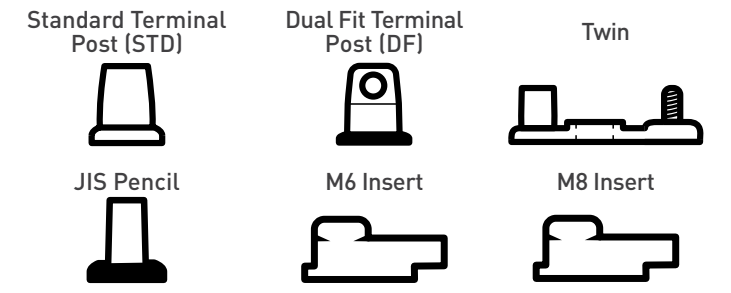
- 1** Add the power consumption (watts) of each item of equipment being used = **Total Watts**
 » Refrigerator = 40W
 » Lights = 20W
 » Winch = 90W
- 2** Calculate the estimated time of use in hours = **Total Hours**
 » Refrigerator, 40W for 10 hours = (40 x 10) = 400Wh
 » Lights, 20W for 4 hours = (20 x 4) = 80Wh
 » Winch, 90W for 0.2 hours = (90 x 0.2) = 18Wh
- 3** Calculate power consumption by multiplying Total Watts x Total Hours = **Watt Hours (Wh)**
 = (400+80+18) = 498Wh
- 4** Add a 50% safety net
Power Consumption = Watt Hours (Wh) x 2
 » Power Consumption (Wh x 2) = (498 x 2) = 996Wh
- 5** Convert power consumption into Ah capacity (Ah)
= Power Consumption Watt Hours (Wh) / Total Battery Voltage
 » Power Consumption (Wh) / Battery Voltage
 = (996/12) = 83Ah
- 6** Refer to Deep Cycle product tables to select a suitably rated battery for your application
 » Choose a Deep Cycle battery with a **minimum 83Ah**

WHY ADDING A 50% SAFETY NET IS IMPORTANT: Although Deep Cycle batteries are designed to handle regular discharge and recharge cycles, once the battery is discharged past 50% of its capacity (Ah) it will dramatically reduce the life of the battery over time.

Battery Hold-Down



Terminal Types



Special Features Glossary

AGM	Absorbed Glass Mat	GM	Glass Mat Separator	PL	Platelock™ Technology
CH	Carry Handles	LM	Low Maintenance	PV	Pressure Valve
CI	State of Charge Indicator	MIA	Made in Australia	VR	Vibration Resistant
CV	Central Venting	MF	Maintenance Free		
FA	Flame Arrestor	MR	Mud Rack		



YUASA BATTERY

For more information on Yuasa's range of products and services, visit yuasabatteries.co.nz

Available from:

