



Batteries that last and last



DEEP CYCLE
BATTERIES



LONG-LASTING, DEPENDABLE DEEP CYCLE POWER

CENTURY 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.



CENTURY YUASA, DESIGNING AND MANUFACTURING BATTERIES SINCE 1928.

Century Batteries is part of the Century Yuasa group, New Zealand's leading battery supplier. 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 ensure we deliver a range of superior quality batteries better suited to New Zealand's diverse climate and tough 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.

DEEP
CYCLE
POWER



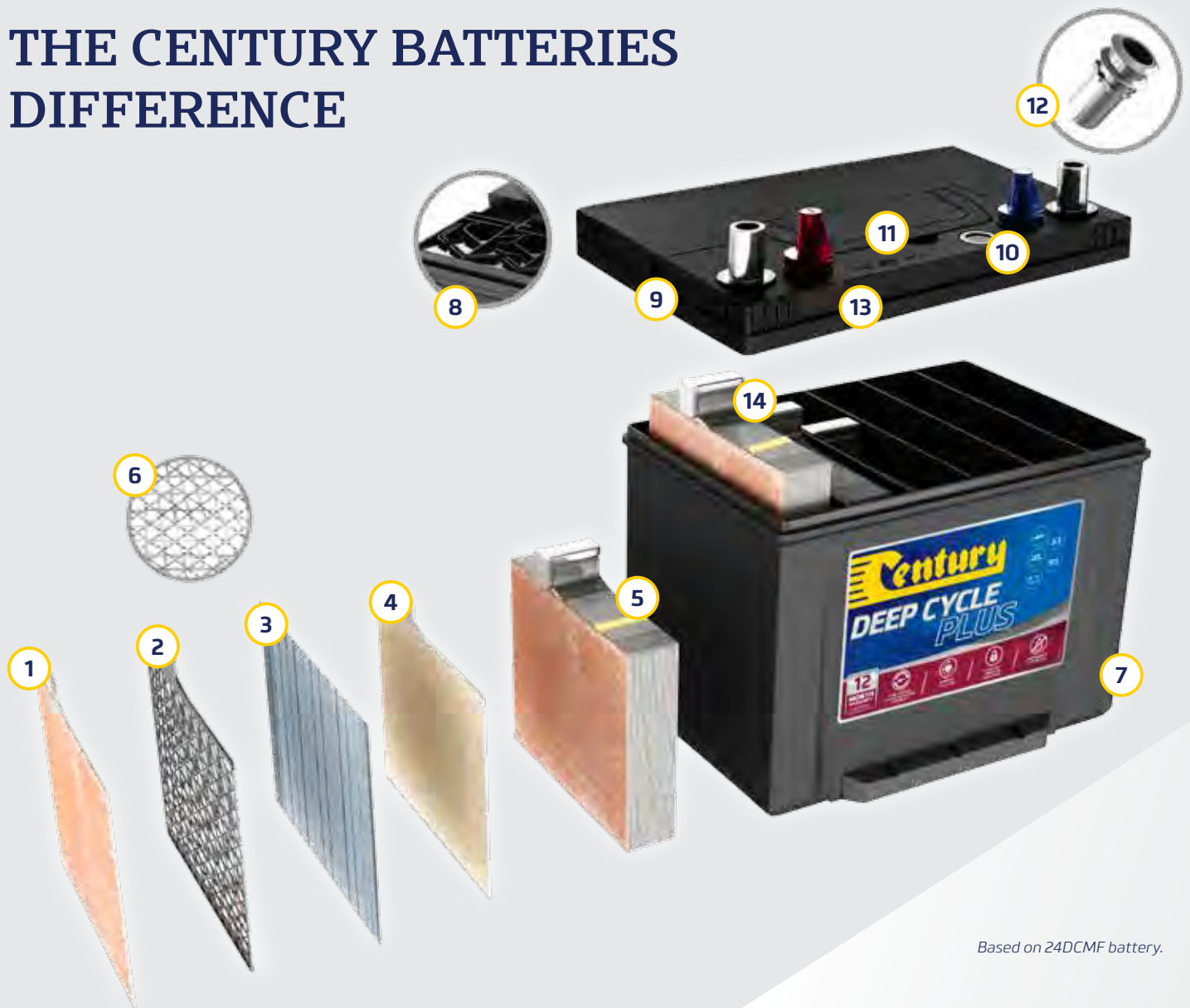


CHOOSING THE RIGHT BATTERY

DEEP CYCLE RANGE					
		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.

THE CENTURY BATTERIES DIFFERENCE



Based on 24DCMF battery.

- 1 ROLLED EXPANDED HIGH TIN GRID**
Provides improved corrosion resistance and longer life.
- 2 WROUGHT LEAD-CALCIUM GRIDS**
Improves resistance to grid corrosion & over-charging, and minimises gassing and water usage for reduced self-discharge.
- 3 LOW-RESISTANCE ENVELOPE SEPARATORS**
Improves vibration resistance & helps prevent internal shorts between positive and negative plates.
- 4 NST PLATE TISSUE**
Special tissue on positive plates prevents active material shedding during frequent charging and discharging.
- 5 PLATELOCK™ TECHNOLOGY**
Combats vibration, shock and damage from rough, uneven conditions.
- 6 DIAMOND MESH**
Increased conductivity for higher performance.
- 7 POLYPROPYLENE CASE**
Reinforced design provides durability to withstand shock and vibration.
- 8 DOUBLE LID WITH LABYRINTH STRUCTURE**
Prevents electrolyte loss by collecting and returning liquid to the reservoir.
- 9 FLAME ARRESTOR**
Prevents external ignition sources from entering the battery.
- 10 STATE OF CHARGE INDICATOR**
For on the spot diagnosis of battery condition.
- 11 CARRY HANDLE**
Ergonomic easy fold-down carry handle.
- 12 COLD FORGED TERMINAL**
Improves strength.
- 13 HEAT SEALED DOUBLE LID**
Prevents contamination, improves strength & reduces water loss.
- 14 CAST-ON PLATE STRAPS**
Stronger than conventional connectors. Reduces damage from rough uneven conditions, shock & vibration.



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	VOLTS	CCA -18°C	RC @ 25°C	AH @ 20HR	 (all measurements in mm)								
						L	W	H	TH					
						DEEP CYCLE PLUS								
645100	24DCMF	12	600	135	82	260	171	202	225	D	18.60	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, SL, VR
645101	27DCMF	12	680	160	96	304	172	202	225	D	21.20	TWIN	SIDE	CH, CI, CV, FA, MF, MR, PL, SL, VR
645102	30DCMF	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.

Deep Cycle Flooded

Reliable deep cycling performance in a diverse range of recreational 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
SCOOTER



MARINE
SYSTEMS








CARAVAN &
CAMPER TRAILERS



4x4



DUAL BATTERY
SYSTEMS

ITEM ID	BATTERY TYPE	WARRANTY †	VOLTS	AH @ 20HR										
					L	W	H	TH						POLARITY
DEEP CYCLE FLOODED														
641100	12DC	12	6	105	227	172	184	210	A	15.80	STD	-	GM, LM, VR	
641104	47DC	12	12	50	235	175	210	225	C	17.10	TWIN	-	CH, CI, GM, LM, MIA, MR, PL, VR	
641106	N70DC	12	12	75	305	175	225	225	D	25.10	STD	-	CH, LM, MIA, 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 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



SUPERIOR DEEP DISCHARGE CAPABILITIES



FAST RECHARGING CAPABILITIES



MULTI ANGLE FITMENT - SPILL PROOF



SUPERIOR VIBRATION RESISTANCE

12 MONTH WARRANTY*



RECREATIONAL VEHICLES



CARAVAN & CAMPER TRAILERS



MARINE SYSTEMS




DUAL BATTERY SYSTEMS



SOLAR SYSTEMS



MOBILITY SCOOTERS

ITEM ID	BATTERY TYPE	WARRANTY †	VOLTS	AH @ 20HR									
					L	W	H	TH					
					POLARITY	WEIGHT	TERM. TYPE	HOLD DOWN					
DEEP CYCLE AGM													
648105	C12-55DA	12	12	55	229	138	210	235	D	18.00	M6 INSERT	-	AGM, CV, FA, MF, PV, VR
648103	C12-120DA	12	12	120	328	172	222	222	D	32.00	M8 INSERT	-	AGM, CV, FA, MF, PV, VR
648104	C12-270DA	12	12	270	520	268	220	225	F	74.00	M8 INSERT	-	AGM, CV, FA, MF, PV, VR
648102	LPC6-190	12	6	190	306	168	222	228	A	30.80	M6 INSERT	-	AGM, CH, MF, VR
DEEP CYCLE REC#													
648004	REC22-12	12	12	22	181	76	167	167	C	15.30	M6 INSERT	-	AGM, CH, MF, VRLA
648007	REC36-12	12	12	36	196	130	169	169	D	27.00	M6 INSERT	-	AGM, CH, MF, VRLA
648005	REC50-12	12	12	50	197	165	175	175	C	6.40	M6 INSERT	-	AGM, CH, MF, VRLA
648006	REC80-12	12	12	88	259	167	213	213	D	11.20	M6 INSERT	-	AGM, CH, MF, VRLA

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



Industrial Deep Cycle

This flooded lead-acid range features thicker, heavier battery plates, heavy duty internal connections and high density shock resistant paste to provide superior current flow and exceptional vibration resistance.

- » Xi Crystal Plate Technology providing enhanced performance, charging characteristics and improved battery life[^]
- » Exceptional shock and vibration resistance
- » Highest initial capacity in their class



HIGHER
CYCLE
LIFE



FAST
RECHARGING
CAPABILITIES

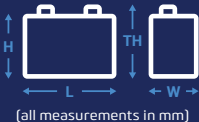







SUPERIOR
VIBRATION
RESISTANCE



MADE
IN USA[^]



ITEM ID	BATTERY TYPE	VOLTS	AH @ 20HR									
				L	W	H	TH	POLARITY	WEIGHT	TERM. TYPE	HOLD DOWN	SPECIAL FEATURES
GOLF CARTS & MULTI PURPOSE												
641124	C2320S-US	6	232	260	181	244	277	A	28.00	DF	-	LM, MRF, VR, Xi
641128	C105*	6	225	264	181	245	276	A	29.79	W/NUT	-	LM, VR
641116	C8VGC-US	8	170	260	181	244	273	D	29.20	UTL	-	LM, MRF, VR, Xi
641127	C12VS-US	12	155	333	179	244	277	D	39.00	DF	-	CH, LM, MRF, VR, Xi
FLOOR SWEEPER/SCRUBBER & MULTI PURPOSE												
641124	C2320S-US	6	232	260	181	244	277	A	28.00	DF	-	LM, MRF, VR, Xi
641128	C105*	6	225	264	181	245	276	A	29.79	W/NUT	-	LM, VR
641121	C27DC-US	12	105	324	171	202	238	C	26.60	TWIN	SIDE	CH, LM, MRF, VR, Xi
641122	C31DC-US	12	130	330	171	219	240	D	29.70	TWIN	-	CH, LM, MRF, VR, Xi
SCISSOR LIFT, WORK PLATFORMS & MULTI PURPOSE												
641124	C2320S-US	6	232	260	181	244	277	A	28.00	DF	-	LM, MRF, VR, Xi
641128	C105*	6	225	264	181	245	276	A	29.79	W/NUT	-	LM, VR
641125	C16S-US	6	385	302	181	385	416	A	50.00	DF	-	LM, MRF, VR, Xi
641126	C16HCS-US	6	420	302	181	385	416	A	54.00	DF	-	LM, MRF, VR, Xi
MARINE & MULTI PURPOSE												
641124	C2320S-US	6	232	260	181	244	277	A	28.00	DF	-	LM, MRF, VR, Xi
641128	C105*	6	225	264	181	245	276	A	29.79	W/NUT	-	LM, VR
641120	C24DC-US	12	85	283	171	222	238	C	23.00	TWIN	SIDE	CH, LM, MRF, VR, Xi
641121	C27DC-US	12	105	324	171	202	238	C	26.60	TWIN	SIDE	CH, LM, MRF, VR, Xi
641122	C31DC-US	12	130	330	171	219	240	D	29.70	TWIN	-	CH, LM, MRF, VR, Xi

For charging recommendations, refer to the battery's specification sheet at centurybatteries.co.nz/resources/specification-sheets

*Supplied from a different supplier, not US made. Xi Crystal Plate Technology is not featured in this product. ^Selected items only.

† 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.



CALCULATING YOUR (Ah) REQUIREMENTS



THE SIZE AND TYPE OF DEEP CYCLE BATTERY YOU SELECT 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**
- 2 Calculate the estimated time of use in hours = **Total Hours**
- 3 Calculate power consumption by multiplying Total Watts x Total Hours = **Watt Hours (Wh)**
- 4 Add a 50% safety net
Power Consumption = Watt Hours (Wh) x 2
- 5 Convert power consumption into Ah capacity (Ah)
= Power Consumption Watt Hours (Wh) / Total Battery Voltage
- 6 Refer to Deep Cycle product tables to select a suitably rated battery for your application

EXAMPLE

1 & 2. Calculate power consumption & time of use

- » Refrigerator, 40W for 10 hours = $(40 \times 10) = 400\text{Wh}$
- » Lights, 20W for 4 hours = $(20 \times 4) = 80\text{Wh}$
- » Winch, 90W for 0.2 hours = $(90 \times 0.2) = 18\text{Wh}$

3. Total power consumption (Watt Hours (Wh))
 $= (400 + 80 + 18) = 498\text{Wh}$

4. Add a 50% safety net

- » Power Consumption $(\text{Wh} \times 2) = (498 \times 2) = 996\text{Wh}$

5. Convert Power Consumption to Ah (12V battery)

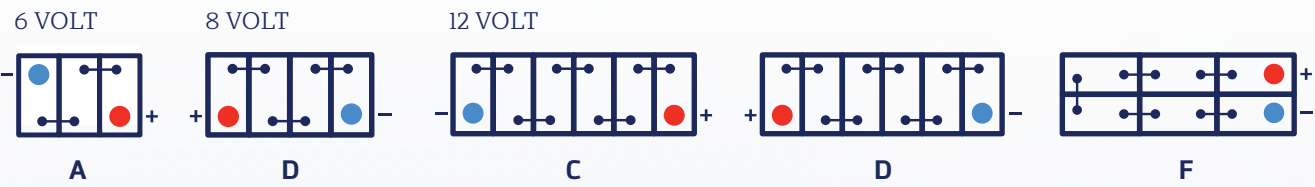
- » Power Consumption (Wh) / Battery Voltage
 $= (996 / 12) = 83\text{Ah}$

6. Choose a Deep Cycle battery with a minimum 83Ah

i 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.

CELL LAYOUT



BATTERY HOLD-DOWN

SIDE HOLD-DOWN



TERMINAL TYPES

STANDARD TERMINAL POST (STD)	DUAL FIT TERMINAL POST (DF)	TWIN	W/NUT
UTL	M6 (M6 INSERT)	M8 (M8 INSERT)	

SPECIAL FEATURES GLOSSARY

AGM	Absorbed Glass Mat	LM	Low Maintenance	PV	Pressure Value
CH	Carry Handles	MIA	Made in Australia	SL	Side Ledge
CI	State of Charge Indicator	MRF	Microrib Flexsil Separator	VR	Vibration Resistant
CV	Central Venting	MF	Maintenance Free	VRLA	Valve Regulated Lead Acid
FA	Flame Arrestor	MR	Mud Rack	Xi	Xi Crystal Plate Technology
GM	Glass Mat Separator	PL	Platelock™ Technology		



BATTERY CARE & MAINTENANCE[^]

For batteries used in seasonal applications and stored long term, fully recharge the battery prior to storing. Check the state of charge or voltage regularly. A fully charged Century Deep Cycle battery should have an open circuit voltage (OCV) between 12.6 to 12.8 volts. Should the voltage drop below 12.5V, recharge the battery. It is important to check the battery completely before reconnecting to electrical devices.

USE THE FOLLOWING AS A GUIDE WHEN EXAMINING YOUR BATTERY:



1. Ensure the battery top is clean, dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.



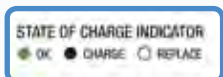
2. Inspect the terminals, screws, clamps and cables for breakage, damage or loose connections. These should be clean, tight and free of corrosion.



3. Apply a thin coating of high temperature grease to posts and cable connections for added protection.

4. Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged.

5. If you have a maintainable battery, it is important to check if the battery has sufficient electrolyte covering the battery plates. If topping up is required, do not over fill as the fluid levels will rise when the battery is fully charged and may overflow. Top up using distilled or demineralised water and never fill with sulphuric acid.



6. When servicing a sealed maintenance free (SMF) battery, check the State of Charge Indicator. This gives you a snap shot of the batteries condition and whether the battery needs to be charged or replaced. If the State of Charge Indicator advises 'Replace' it is important that the battery is replaced as the electrolyte levels may be below the plates which can lead to an internal explosion.



7. Deep Cycle batteries have different charging parameters and require a charger specifically designed for the battery size and type. For charging recommendations, refer to the battery's specification sheet at www.centurybatteries.co.nz/resources/specification-sheets. For assistance in selecting the correct charger visit www.centurybatteries.co.nz/products/battery-chargers

[^]Always follow manufacturers guidelines.

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



Batteries that last and last



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