

STARMAX



LAWN & GARDEN BATTERIES

LAWN, TRACTOR AND UTILITY BATTERIES

The world's leading battery brand



www.starmaxbatteries.com

LAWN AND GARDEN BATTERY

Application

The Lawn and Garden battery is suitable for Mowers, Tillers, Chipper Shredders, Vacuum Cleaners, Snow Blowers, Turf Vehicles and more.



Special Features

- ✔ Vibration Resistant
- ✔ Leakage and spill proof
- ✔ Stronger Charge Acceptance
- ✔ High Density Active-material
- ✔ Advanced startup ability and high capacity
- ✔ Plenty of cranking amps to power tractors and recreational vehicles across the roughest terrain
- ✔ Maintenance-free eliminating the need to add water
- ✔ Envelope separators protect all sides of the plates, preventing internal shorting and providing superior cranking capacity
- ✔ Strict quality control checks guarantee the highest quality

SPECIFICATIONS

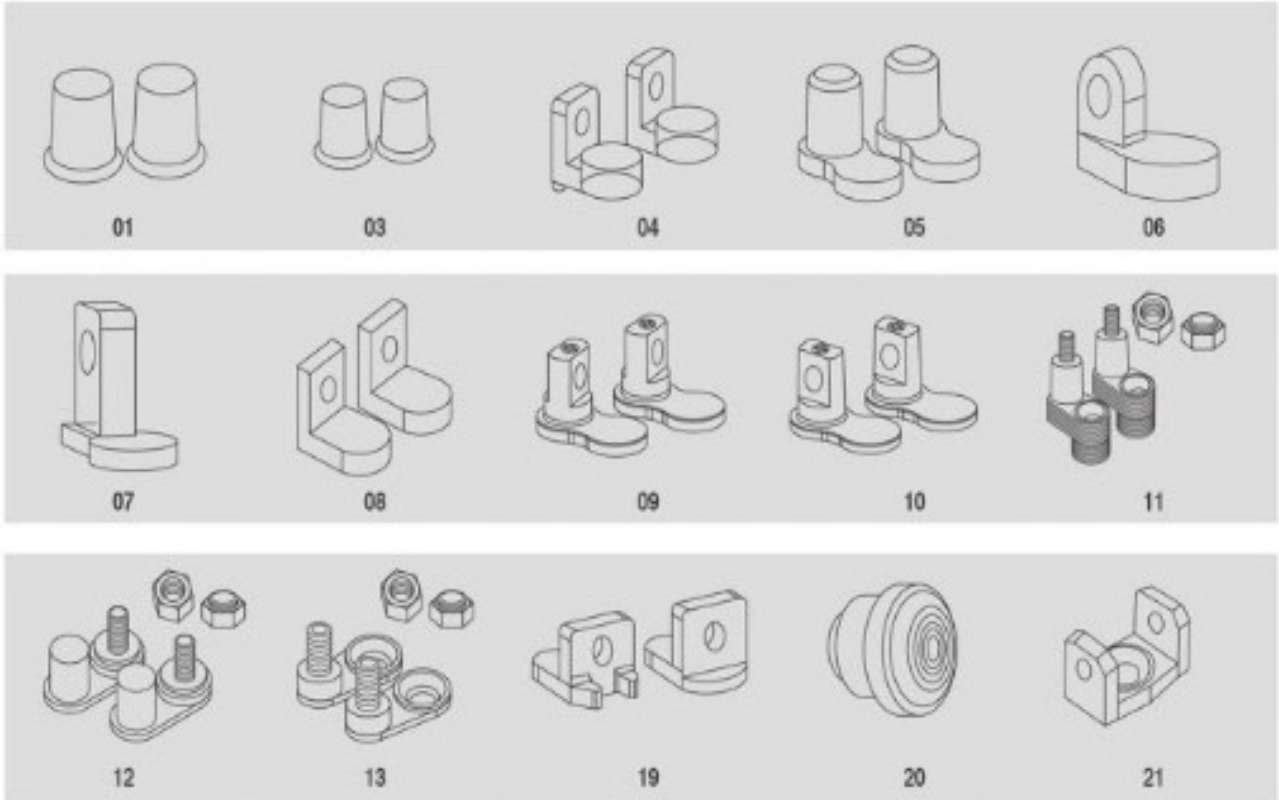
Type	RC (min)	CCA (SAE)	Max Dimension (mm)				Terminal		Hold Down	Weight (Kg)
			L	W	H	TH	Layout	Type		
U1L-200	24	200	197	130	159	185	0	4	B00	7.0
U1R-200	24	200	197	130	159	185	1	4	B00	7.0
U1L-280	34	280	197	130	159	185	0	4	B00	7.7
U1R-280	34	280	197	130	159	185	1	4	B00	7.7
U1L-330	44	330	197	130	159	185	0	4	B00	8.3
U1R-330	44	330	197	130	159	185	1	4	B00	8.3



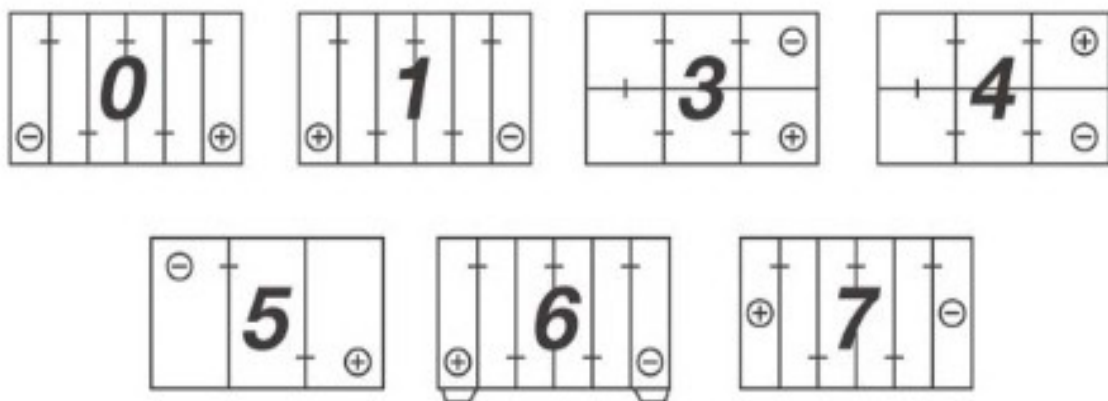
SPECIFICATIONS

BCI Group PART NO.	PART NO.	Capacity	RC (min)	CCA (-18°C)	Max Dimension (mm)			Terminal		Hold Down	Weight (Kg)	Weight (lbs)
		20Hr(Ah)			L	W	TH	Layout	Type			
U1L-190	U1L-6	15	21	190	197	130	185	1	4	B00	6.6	14.6
U1R-190	U1R-6	15	21	190	197	130	185	0	4	B00	6.6	14.6
U1L-250	U1L-8	20	27	250	197	130	185		4	B00	7.4	16.3
U1R-250	U1R-8	20	27	250	197	130	185	0	4	B00	7.4	16.3
U1L-300	U1L-9	24	33	300	197	130	185	1	4	B00	7.7	17.0
U1R-300	U1R-9	24	33	300	197	130	185	0	4	B00	7.7	17.0
U1L-330	U1L-10	26	36	330	197	130	185	1	4	B00	8.0	17.6
U1R-330	U1R-10	26	36	30	197	130	185	0	4	B00	8.0	17.6
U1L-350	U1L-11	30	44	360	197	130	185	1	4	B00	8.4	18.5
U1R-350	U1R-11	30	44	360	197	130	185	0	4	B00	8.4	18.5





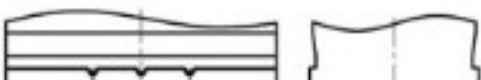













TERMINAL



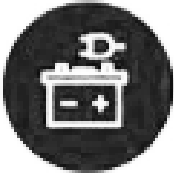
LAYOUT



HOLD DOWN

B00		B01	
B02		B03	
B04		B05	
B06		B07	
B08		B09	
B10		B11	
B12		B13	
B14		B15	
B16		B17	

BATTERY CARE AND MAINTENANCE



- The vent hole on both sides of the battery cover or on the vent plug should be checked regularly. Keep the holes from being blocked by dust and ice water to avoid poor exhaust, shell deformation and burst
- When charging batteries, work in a well-ventilated area. Always turn battery charger off before disconnecting battery
- Battery usage should be discontinued if the battery terminals are burnt.
- We recommend constant voltage charging instead of constant current charging for the battery



- When testing battery performance, start with reserve capacity
- When servicing a sealed maintenance free (SMF) battery, check the State of Charge Indicator. This gives you a snap shot of the battery's condition and whether the battery needs to be charged or replaced. The vehicle may still start the engine although the indicator outlines to replace the battery. If the State of Charge Indicator advises 'Replace Battery' it is important that the battery is replaced as the electrolyte levels may be below the plates which can lead to an internal explosion



- 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 demineralized water and never fill with sulphuric acid



- Check the battery's state of charge. Most batteries have a State of Charge Indicator on top of the battery that will give you an on the spot diagnosis of the battery condition. However, a more reliable way to check is with a voltmeter to determine the stabilized voltage or if the vent caps are removable a hydrometer to determine the specific gravity (SG) of the electrolyte
- Usually it takes 3 to 5 seconds to start a car at first time. The restarting should be at intervals of more than 15 seconds. If the car fails to be start after many times, check if there is any damage on the battery or the circuit. This situation is common in winter



- 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. Should the voltage drop below 12.5V, recharge the battery. It is important to check the battery completely before reconnecting to electrical devices
- Keep the battery top clean and dry. Apply either petroleum jelly or Vaseline to cable clamps and terminals for proper lubrication and added protection
- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged

WARNING

01

Battery acid can cause burns. Please keep away from children. Suitable hand, eye and face protection and protective clothing must be worn. If in the eyes, hold eyelids apart and flush the eye continuously with running water or contact a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water.

02

Keep away from heat source and open fire. Keep ventilated when charging or using batteries to avoid burst hurt.

03

Do not open the battery to avoid explosion.

04

Do not use metal tools to connect positive and negative terminal, otherwise the battery will short circuit and cause fire or explosion.

05

Do not Discard the batteries. Insulate the +ve and -ve Terminals with insulating tape and take them to a recycling facility.

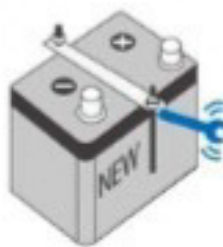
HOW TO REPLACE BATTERY



Switch off the engine and keep sparks, flames, cigarettes away from battery at all times before removing the old battery.



Disconnect the negative terminal first and avoid short-circuit caused by tools when removing old battery.



Clean corroded parts in tray and cable clamps before installation of new battery.



Connect the positive terminal first and check the terminal clamps for tight fit when installing new battery.



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