

AERO SUPPORT GROUP



Rule of Thumb when selecting an Ultra-Starter for an aircraft type

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| -- 1 -- | Check or ask for the Voltage of the Electrical System of the aircraft | |
| | Is it 12V? | Then the aircraft battery will be a 12V unit Therefore the aircraft will require an UST-2012LV (12V, 20Ah, 750 Amp Peak) or an UST-2012 (12V, 20Ah, 1,500 Amp Peak) NOTE: The UST-2012LV may suffice for the smaller engines, with Take Off Power up to 150 hp |
| | Is it 24V? | Then the aircraft battery will be a 24V unit Therefore the aircraft will require an UST-2030 or an UST-4030 NOTE: For some aircraft types, the two variants exist: 12V and 24V |
| -- 2 -- | If the Voltage is 24V, check or ask for the Capacity of the battery (lead-acid) of the aircraft | |
| | Is it lower than 30Ah? | Then the aircraft will most probably require an UST-2030 (28V, 20Ah LiFePO4, 1,500 Amp Peak) |
| | Is it higher than 30Ah? | Then the aircraft will require an UST-4030 (28V, 40Ah LiFePO4, 2,600 Amp Peak) |
| -- 3 -- | Please, to make a final decision, check also the engine/s type, Max. Take Off Power required, and number of engines powering the aircraft. | |
| | NOTE: The engine size and its take off power is linked to the capacity of the battery i.e. Capacity lower than 30Ah → the aircraft has small and less powerful engines → UST-2030 should be enough i.e. Capacity higher than 30Ah → the aircraft has big and more powerful engines → UST-4030 will be required | |
| | NOTE: Check the Take Off Power of the engines Take Off Power lower than 550 - 600 hp / shp → UST-2030 should be enough Take Off Power higher than 550 - 600 hp / shp → UST-4030 will be required | |
| | NOTE: For most of the turboprops, an UST-4030 will be required (battery capacity is higher than 30Ah in most cases shown in the table) | |
| | NOTE: If the aircraft has 2-3 engines, an UST-4030 is always recommended, even if the Take Off Power per engine is not very high | |
| | NOTE: For very big and powerful engines, 2 x UST-4030s connected in parallel with the Dual Connector may be required | |



AERO SUPPORT GROUP
honest dedicated service you can trust

clientcare@asgltd.ca

www.asgltd.ca