





Powerlite Starter Motors

There are four main types of starter motor currently in the Powerlite production programme. All four share some basic principles - they are all pre-engaged units, they all have an internal gear reduction mechanism and they all have an integral solenoid. All four will offer far superior performance than any original unit, drawing less current from the battery, turning the engine over faster and starting first time regardless of temperature. The physical difference between the units are listed below.

Unit Style		Description	kW	Typical Weight
Offset Gear Reduction		This style of unit has a set of steel, in-line gears that operate sequentially when the solenoid switch is triggered. They operate at an approximate 4:1 gear ratio. As the motor spins, the extra gearing creates increased torque as the solenoid plunger forces the pinion into the ring gear.	From 1.0 kW up to 1.4 kW	3.8 kg
Offset Gear Reduction with Multi Drilled Adaptor Plate		As above but with a Multi Drilled Adaptor Plate, allowing the unit to be mounted in multiple positions. Simply remove two bolts, check the best mounting position and reattach to the unit. A perfect solution for tight spaces!	From 1.0 kW up to 1.4 kW	3.8 kg
"Slimline" Direct Drive Epicyclic Gear Reduced		Slimline starter motors have an epicyclical gear box that sits behind the pinion. Extra torque is generated by a set of internal gears when the solenoid is triggered, throwing the pinion into mesh. "Slimline" starters were invented by Powerlite as an alternative to the off-set gear reduction starter and offer better fitting options where space is tight on an engine.	1.6 kW	3.2 kg
"MicroStart" Direct Drive Epicyclic Gear Reduced		MicroStarts are the smallest units in our range and are based on a traditional pre-engaged unit where the solenoid sits on top of the motor. The pinion is activated on a lever that pulls in when the solenoid is switched on - there is an epicyclical gearbox that joins the motor to the drive assembly, creating the extra torque when needed.	1.2 kW	2.4 kg

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