

MINI-SILENT-EFFICIENT WELDING GENERATOR

To be in line with global emissions scenario and to reduce green house gases (NOx & PM), India is a voluntary signatory hence we need to change technology as per the government regulations for pollution control. New Compact Silent Challenger 301 complies the CPCB-2 Norms. It is having powerful turbocharged engine with stable arc and smooth welding, which is recommended for welding application like pipeline welding, construction site, etc. A turbocharger is a device driven by exhaust gases that increases engine power by pumping air into the combustion chambers. Hence, due to turbocharger the efficiency of engine increases and hence overall improvement in fuel consumption.

Compact-Uses less truck space

Silent challenger 301 is approximately 25% smaller and lighter than earlier version of 300 Ampere welding generator. Hence, much easier for transportation from one site to another. Also because of reduction in length by 15% (as compared with earlier version), takes less space in truck or trailers.

There is also 20 % reduction in gross weight of the machine hence it can be transported by using mini truck (capacity < 1 Ton)

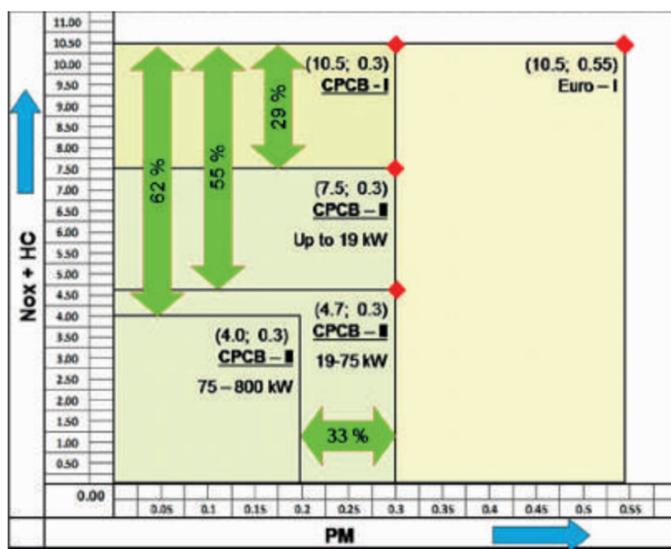
Model	Silent Challenger 301 (Old)	Silent Challenger 301 (New)
Length	2000 mm	1700 mm
Width	820 mm	820 mm
Height	1375 mm	1000 mm

Complies CPCB-II Norms

CPCB-II is the next level of emission norms after CPCB I mandating significant reduction in engine exhaust emissions for diesel generators up to 800 kW in India.

With the introduction of CPCB-II emission regulations by the Ministry of Environment & Forests (MoEF), the diesel industry will progressively move towards cleaner and greener energy solutions. With appropriate technology selection, the transition to CPCB-II can be not only a transition to the latest emission regulation, but also to a cleaner and more efficient technology

Compared to current emission requirements (CPCB-I), current allowable levels of nitrogen oxide (NOx) and particulate matter (PM) — the two main pollutants in diesel engines have been reduced significantly in CPCB-II. Below is the comparison between these norms which implies that new norms are more stringent than the existing norms.



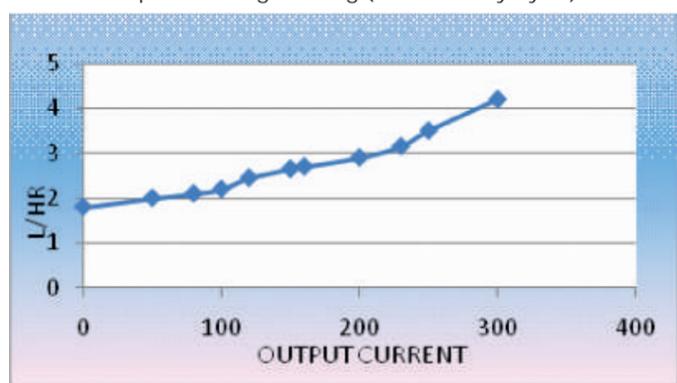
Turbocharged engine with superior performance

Turbocharged engine used in welding generator Silent challenger 301 ensures efficient fuel utilization in all kind of operation. Due to turbocharger engine life cycle increases and also less maintenance is required.

Thus there is overall reduction in cost of ownership.

Fuel consumption chart is shown in below figure:

Fuel consumption during welding (@ 60 % Duty Cycle)



No load fuel consumption is less i.e 1.8 L/Hr, hence less fuel consumption during no-load condition which means more profit to customer.

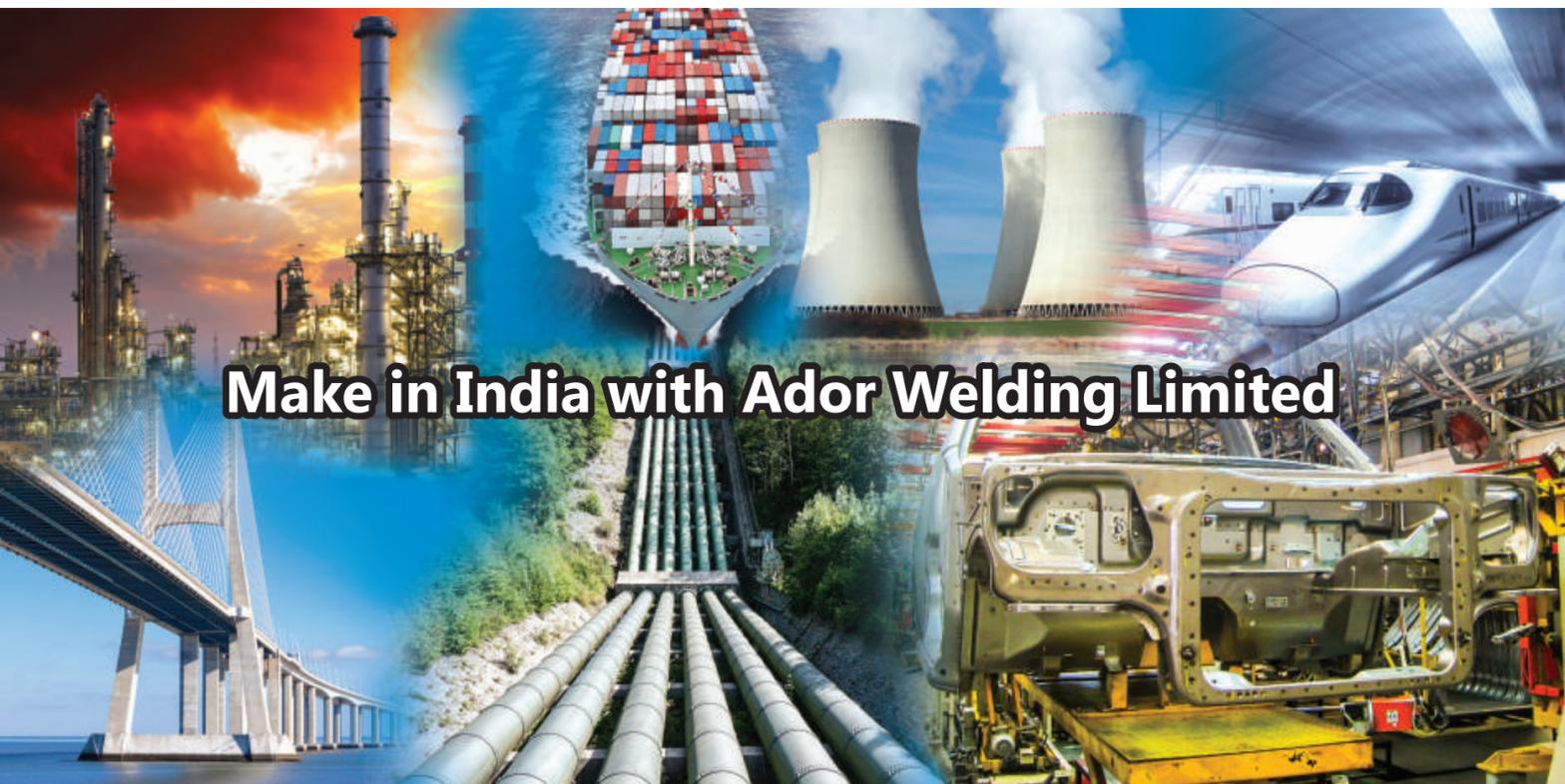
Super silent acoustic canopy

Sound level measured at full load current (300 Ampere) is around 72 dB, which is very low as compared to other engine driven welding machine and hence recommended for quieter job sites.

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