



**YANMAR**

**AIR COOLED DIESEL  
WELDER-GENERATOR**

# **YDW190N**

Current Range 50-180A



# For Versatile, High Performance Welder-Generator Sets, Hook Up with Yanmar!

## Versatility

Yanmar's Welder-generator set is in fact a rectified DC welder and a revolving field type AC generator. With its large capacity output, this unit has the versatility to handle a wide range of welding currents to suit your job.

## Features

High quality welds can be achieved at low current levels. Voltage fluctuations are small during welding. The arc is easy to keep running, giving high quality continuous welds. Because it is a multipole generator, a reactor becomes unnecessary, allowing substantial weight savings, while reducing the possibility of any trouble at an overload situation.

## Economical

A "Slow down" mechanism in the dual starting version automatically lowers engine speed during breaks in welding, cutting both fuel and lube oil consumption. Combined with Yanmar's already fuel-thrifty engines, running costs are low.

## Long Operation with Large Capacity Fuel Tank

A large capacity fuel tank is equipped for long hours of continuous operation. The YDW190N allows 15 hours of continuous welding operation (at 50% load, 50% duty) and 11 hours of continuous power generation (at rated output).

## Compact and Lightweight

An efficient frame and useful weight savings. Moreover the Yanmar diesel engine powering this unit is amongst the world's marvel of miniaturization.

## Low Noise, Low Vibration

The Yanmar welder generator features a large capacity exhaust muffler to reduce engine noise, and a vibration-proof support to slash vibration and mechanical noise. The YDW190N is ideal for jobs that require quiet.

## Durable Construction

Every part is designed to ensure maximum durability for many hours of trouble-free operation. An oil pressure drop shut-off system in the dual starting version stops the engine when lube oil pressure falls.

## One-Side Control

All control devices and service points are situated on the same side for easy operation and maintenance. Simple key starting and stopping adds to the convenience in the dual starting version.

## L-N SERIES AIR-COOLED DIESEL ENGINE

### Its secret in the world's smallest fuel injection system

The fuel injection system, the heart of the diesel, has been refined through years of research and development at Yanmar. We have now succeeded in minimizing the weight and size and simplifying the structure by adopting a bushless pump and cutting the nozzle size.



- Superb durability—because it is built by a special in-line diesel technology.
- Instant starting by recoil starter—the first time in an air-cooled diesel.
- Fuel costs dip to a new low with Yanmar's direct fuel injection system.
- Very low vibration and quiet running.

## SPECIFICATIONS

Mode		YDW190N		
		Recoil	Dual start	
WELDER	Type	Rectifier type DC Welder(w/Brush)		
	Rated output	kW	4.37	
	Rated current	A	165	
	Current range	A	50 ~ 80	
	Rated voltage	V	28.5	
	Voltage at no load	V	45 ~ 60	
	Rotation speed	min/1rpm	3600	
	Applicable electrode	mm(in)φ	2.6 - 4.0 (0.1" - 0.16")	
Rated efficiency	%	50		
AC GENERATOR	No. of phase	Single		
	Voltage	V	200/220, 220/240	
	Frequency	Hz	50/60	
	Rated output	kW	2.3/2.7	
	Power factor		1.0	
ENGINE	Type	Single cylinder, Vertical 4-cycle, Air-cooled diesel engine		
	Model	100N6-GYW / 1100N6-GFYW		
	Displacement	cc	435	
	Max.output/Speed	kW(rpm)/min/1rpm	7.4(10) / 3600	
	Starting system		Recoil	Dual/Recoil/Electric
		Lubricant capacity	Total	ℓ
	Effective		ℓ	0.6
	Fuel oil capacity	Total	ℓ	18.5
		Effective	ℓ	13
	Emergency stop(Oil sensor)			Standard
Slow down device			Standard	
Frequency changeover switch			Standard	
SFT	Dimensions L X W X H	mm	720 X 510 X 632	
	Dry Weight	kg	107 / 120	

Note : All data subject to alteration without notice.

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