



GROSS POWER Potencia Bruta	48.8 hp 36.4 kW
RATED SPEED Velocidad de Regimen	3000 RPM

### 4TNV88-BDSA

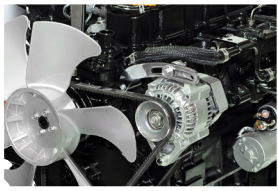
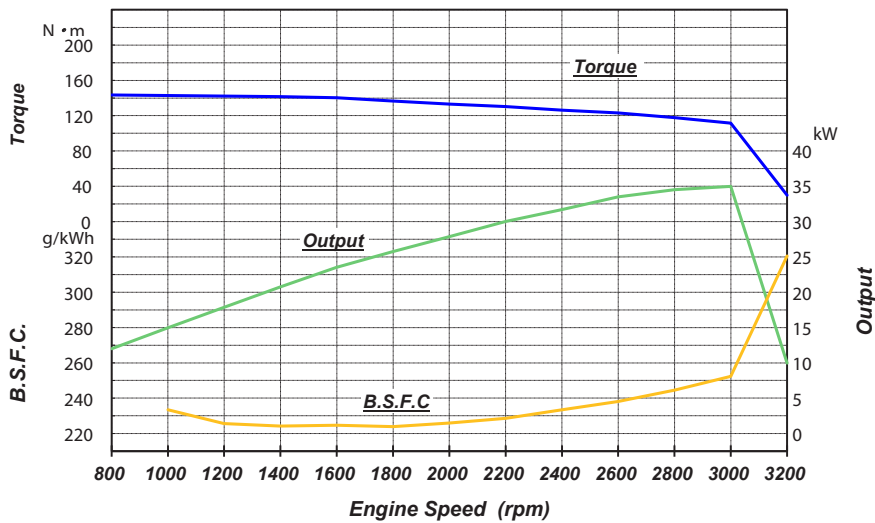
SPECIFICATION Especificacion	BDSA
CYLINDERS Cilindros	4
BORE X STROKE Diámetro x Carrera	3.4 X 3.5 (in) 88 X 90 (mm)
DISPLACEMENT Cilindrada	133.6 (ci) 2190 (cc)

<b>Dimensions &amp; Performance Data &amp; Quick Specs</b>	Length / Longitud	28.58 in (726 mm)
	Width / Ancho	20.43 in (519 mm)
	Height / Altura	26.06 in (662 mm)
	Dry Weight / Peso en seco	363 lbs / 165 kg

<b>COMBUSTION TYPE</b> Tipo de Combustion	Direct Injection Inyeccion Directa
--	---------------------------------------

<b>ASPIRATION</b> Aspiracion	Naturally Aspirated Aspiracion Natural
---------------------------------	---

<b>GOVERNOR TYPE</b> Tipo de Gobernador	Mechanical Mecanico
--	------------------------



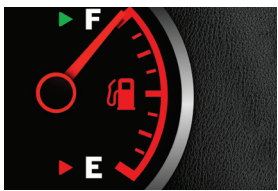
#### Reliable & Durable

The TNV engines now proudly take up the running as Yanmar's premium small industrial diesel. They offer even more enhanced durability due to better block cooling, a stiffer crank and pistons, finer tolerance in the journal and more. CAE analysis has brought lower vibrations and higher strength to the mounting structure for even better reliability in heavy-duty jobs.



#### Clean Emissions

Building off the proven TNE design, Yanmar has achieved superior exhaust emissions by improving the combustion chamber and fuel injection equipment design. Engines are compliant with Interim Tier 4 and EU stage III A exhaust emissions regulations.



#### Fuel Delivery and Economy

A newly designed, Distributor-Type MP2 Fuel Injection Pump is utilized to assure more precise fuel delivery and control. The result is reduced emissions, improved performance over a wide range of applications and increased fuel economy which assures that Yanmar's reputation for superior starting characteristics continues.

<b>Lubrication System</b> 7.4L Capacity Deep Oil Pan
---

<b>Electrical System</b> 12V, 40 Amp Alternator
--

<b>Fuel System</b> Distributor-Type MP2 Fuel Injection Pump
--

<b>Cooling System</b> Water Pump, Belt Driven
--

<b>Power Take Off</b> FWH-SAE #5 t=124 FW-SAE 7.5" CMP
--

© 2014 Yanmar America Corp.  
Engine photo may not reflect actual specifications.  
IE-4TNV88-BDSA-SS0214