Specification sheet

NT855-G6

Non-Regulated

Description

The Cummins NT-Series engines have been service proven through millions of hours of operation in some of the world's most demanding applications. The 14 litre, six-cylinder NTA855 has been engineered to handle higher injection pressures, with redesigned overhead arrangement, pistons, crankshaft and camshaft. A gear train with high contact ratio spur gears also eliminates unwanted thrust loads and reduces noise.

Features

Cylinder Block - Alloy cast iron with removable wet liners.

Cylinder Heads - Alloy cast iron. Each head serves two cylinders. Drilled fuel supply and return lines. Valve seat inserts are replaceable and corrosion resistant. Valve and crosshead guides are replaceable.

Cylinder Liners - Replaceable wet liners dissipate heat faster than dry liners and are easily replaced without re-boring the block.

Fuel System - Cummins PT™ self-adjusting system. Integral dual flyweight governor provides overspeed protection independent of main governor. Camshaft actuated fuel injectors give accurate metering and timing. Dual spin-on fuel filters.

CoolPac Integrated Design - Products are supplied complete with cooling package and air cleaner kit for a complete power package. Each component has been specifically developed and rigorously tested for G-Drive products, ensuring high performance, durability and reliability.

Service and Support - G-Drive products are backed by an uncompromising level of technical support and after sales service, delivered through a world class service network.

This engine has been designed in facilities certified to ISO9001 and manufactured in facilities certified to ISO9001 or ISO9002.

www.famcocorp.com
E-mail: info@famcocorp.com
@famco_group
Tel:۰۲۱-۴۸۰۰۰۰۴۹
Fax:۰۲۱-۴۴۹۹۴۶۴۲
تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲

1500 rpm (50 Hz ratings)

Gross engine output			Net engine output			Typical generator set output					
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
310/416	280/375	231/310	310/415	280/375	231/309	280	350	256	320	207	259

1800 rpm (60 Hz ratings)

Gross engine output			Net engine output			Typical generator set output					
Standby	Prime	Base	Standby	Prime	Base	Standby (ESP)		Prime (PRP)		Base (COP)	
kWm/BHP			kWm/BHP			kWe	kVA	kWe	kVA	kWe	kVA
325/436	295/396	254/341	311/417	281/377	240/322	285	356	260	325	222	277

General engine data

Type	4 cycle, inline, turbocharged
Bore mm	140 mm (5.5 in.)
Stroke mm	152 mm (6.0 in.)
Displacement litre	14.0 litre (855 $in.^3$)
Cylinder block	Cast iron, 6 cylinder
Battery charging alternator	55 amps
Starting voltage	24 volt, negative ground
Fuel system	Direct injection
Fuel filter	Spin-on fuel filters with water separator
Lube oil filter type(s)	Spin-on full flow filter
Lube oil capacity (l)	38.6
Flywheel dimensions	1/14

Coolpac performance data

Cooling system design	JWAC
Coolant ratio	50% ethylene glycol; 50% water
Coolant capacity (l)	45.0
Limiting ambient temp.** (°C)	58.0
Fan power (kWm)	11.6
Cooling system air flow (m^3/s)**	7.6
Air cleaner type	Dry replaceable element with restriction indicator

** @ 13 mm H_20

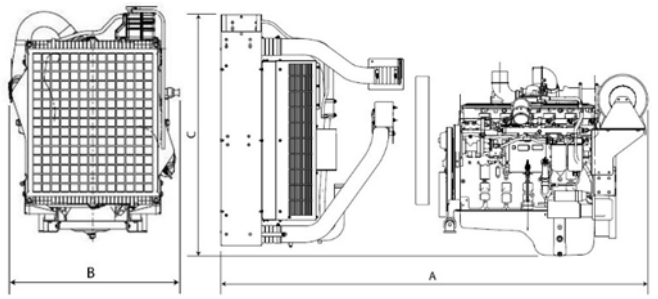
Fuel consumption 1500 (50 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	310	416	76	19.8
Prime Power				
100	280	375	69	17.9
75	210	282	52	13.5
50	140	188	36	9.4
25	70	94	20	5.2
Continuous Power				
100	231	310	57	14.8

Fuel consumption 1800 (60 Hz)

%	kWm	BHP	L/ph	g/kWh
Standby Power				
100	325	436	82	21.3
Prime Power				
100	295	396	74	19.2
75	221	297	56	14.6
50	148	198	40	10.4
25	74	99	23	6.0
Continuous Power				
100	254	341	64	16.6

www.famcocorp.com
E-mail: info@famcocorp.com
@famco_group
Tel:۰۲۱-۴۸۰۰۰۰۴۹
Fax:۰۲۱-۴۴۹۹۴۶۴۲
تهران، کیلومتر۲۱ بزرگراه لشگری (جاده مخصوص کرج)
روبروی پالایشگاه نفت پارس، پلاک ۱۲



Weights and dimensions

Length mm	Width mm	Height mm	Weight (dry) kg
2055	990	1535	1410

Ratings definitions

Emergency Standby Power (ESP):	Limited-Time Running Power (LTP):	Prime Power (PRP):	Base Load (Continuous) Power (COP):
Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power to a constant electrical load for limited hours. Limited-Time Running Power (LTP) is in accordance with ISO 8528.	Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.	Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.

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