



CERTIFIED

Genset : GB/T2820-2009, ISO8528.
Engine : ISO 2046, DIN 6271.
Alternator : VDE 0530, NEMA MGI-32, IEC34, AS1359.

FEATURES

CUMMINS Heavy-Duty Engine
Rugged industrial diesel delivers reliable power, low emissions and fast response to load changes.

STAMFORD Brushless Alternator
Low reactance 2/3 pitch windings; low waveform distortion with non-linear loads, fault clearing short-circuits capability, and class H insulation.

Control System
DeepSea electronic control is the industry leading standard equipment and provides total genset system integration, including automatic remote starting/stopping, precise voltage regulation, alarm and status message display.

Cooling System
Standard integral set-mounted radiator system, designed and tested for rated ambient temperatures, simplifies facility design requirements for rejected heat.

Enclosures
Optional weather-protective and soundattenuated enclosures are available.

Warranty
Backed by a comprehensive warranty and nation wide distributor network.

Emergency Standby Power (ESP)
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.

Limited-Time Running Power (LTP)
Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

Prime Power (PRP)
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.

Base Load (Continuous) Power (COP)
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, DIN 6271 and BS 5514.

POWER RATING

SERVICE		PRP	ESP
POWER	kVA	100	110
POWER	kW	80	88
RATED SPEED	r.p.m	1500	
MAIN TENSION	V	400	
FREQUENCY	Hz	50	

STANDARD SOUNDPROOFING

 **HSD (High Speed Diesel)**

 **Water Cooling**

 **Three Phase**

 **50 Hz**

 **Diesel**

TRUPOWER has the right to modify any features without prior notice.

Weight and dimensions based on standard products. Illustrations may include optional equipment.

Technical data described in this catalogue correspond to the available information at the moment of printing

The illustrations and image are indicative and may not coincide in their entirety with the product

ENGINE



ENGINE SPECIFICATIONS

Rated Engine Output (PRP)	kW	86
Rated Engine Output (ESP)	kW	92
Manufacturer	CUMMINS	
Model	6BT5.9-G2	
Engine Type	4-stroke diesel	
Injection Type	Direct BYC A Direct	
Aspiration Type	kVA	Turbocharged

Number of cylinders and arrangement	L	6
Bore and Stroke	mm	102 x 120
Displacement	L	5,9
Cooling System	Coolant	
Lube Oil Specifications	15W40 CF4	
Compression Ratio	17.3:1	
Air Filter Type	Dry	

- Diesel engine
- 4-stroke cycle
- Water-cooled
- 24V electrical system
- Water separator filter (visible level)
- Dry air filter
- Radiator with pusher fan
- Electronic governor

ALTERNATOR



ALTERNATOR SPECIFICATIONS

Manufacturer	STAMFORD	
Model	UCI 274C	
Poles	No. 4	
Connection type	(Standard) Series Star	
Insulation	Class	H class
Enclosure	(According IEC-34-5) IP23	

Exciter system	Self-excited, brushless	
Voltage regulator	A.V.R. (Electronic) / MX321 / MX341	
Bracket type	Single bearing	
Coupling system	Flexible disc	
Coating type	Standard (Vacuum impregnation)	

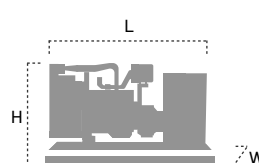
- Self-excited / Auxwinding
- IP23 protection
- H class insulation

WEIGHT AND DIMENSION

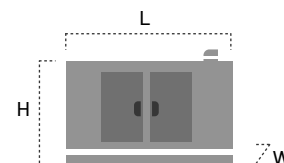


		OPEN	SILENT
*Max shipping volume	m3	1,85	5,8
*Length (L)	mm	2200	3200
*Width (W)	mm	830	1100
*Height (H)	mm	1278	1650
*Weight	Kg	1272	2130
*Wet Weight	Kg	1602	2460
*Autonomy (100% PRP)	Hours	6	6

*Approx dimension, custom units may slightly vary



OPEN



SILENT

Sound pressure level
dB(A)@7m 77 ± 4

APPLICATION DATA

EXHAUST SYSTEM

Maximum exhaust temperature	°C	565
Exhaust Gas Flow	litre/sec	280
Maximum allowed back pressure	kpa	10
Exhaust Flange Size (external diameter)	mm	67

FUEL CONSUMPTION

Fuel Consumption ESP	L/h	25
Fuel Consumption 100% PRP	L/h	22
Fuel Consumption 75% PRP	L/h	17
Fuel Consumption 50% PRP	L/h	11

STARTING TIME

Recommended battery	Ah	55
Auxiliary Voltage	Vdc	24

NECESSARY AMOUNT OF AIR

Intake air flow	litre/sec	108
Alternator cooling air flow	m³/s	0,514

FUEL SYSTEM

Fuel Oil Specifications		Diesel
Fuel Tank Standard	L	132

- Steel chassis
- Anti-vibration shock absorbers
- Chassis with integrated fuel tank
- Fuel level gauge
- External emergency stop switch
- Bodywork made from high quality steel plate
- High mechanical strength
- Low noise emissions level
- Soundproofing provided by high-density material
- Powder coating
- Full access for maintenance (water, oil and filters, no need to remove the canopy)
- Fuel tank drain plug
- Reinforced lifting hooks for crane hoisting
- Oil sump extraction kit
- IP Protection according to ISO 8528-13:2016