

Blue Diamond Diesel Generators Powered by Cummins



Model GEN89CT



DIESEL GENERATING SET 400/230 V - 50 Hz - 3 Phase

MODEL		GEN89CT	
Power Pf.0.8	Standby	kVA	89
		kW	71.2
	Prime	kVA	78
		kW	62.4

ENGINE

CUMMINS		
Model		4BTA3.9G11
Engine Power Output at rated rpm	kWm	80
	HP	107
Aspiration and Cooling		Turbocharged & Aftercooled
Total Displacement	Litre	3.9
No. of Cylinders and Build		4 - Inline
Engine Speed	rpm	1500
Bore and Stroke	mmxmm	102x120
Compression Ratio		17.3:1
Governor		Electronic
Fuel Consumption at full load	L/hr	17.6
Fuel Tank Capacity	Litre	430
Oil Capacity	Litre	10.9
Coolant Capacity	Litre	19.9
Radiator Cooling Air	m ³ /min	120
Air Intake - Engine	m ³ /min	4.2
Exhaust Gas Flow	m ³ /min	8.04

ALTERNATOR UCI224G

Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%



DIMENSIONS

SOUND ATTENUATED TYPE		
DIMENSIONS (L x W x H)	mm	2805x956x1917
DRY WEIGHT	kg	1720

WARRANTY

Blue Diamond Warranty		2 year
Cummins engine warranty	Prime power	12 months - unlimited hours
	Standby power	2 years - 500 hours