

X125C6 / X125C6S

Features:

- Excitation system: self-excited (AREP and PMG are optional)
- ATS (automatic transfer switch) receptacle
- Lockable battery isolator switch
- Stainless galvanized zinc plates with strong corrosion resistance
- Vibration isolators between the engine/alternator and base frame
- Integrated wiring design
- Base fuel tank for at least 8 hours running
- Equipped with an industrial muffler
- Engine oil pump
- 50 ℃ radiator
- Top lifting and steel base frame with forklift holes
- Drainage for fuel tank
- Complete protection functions and safety labels
- IP54 (soundproof sets), IP56 (control system)
- Water jacket preheater, oil heater and double air cleaner, etc. are available.

Ratings and Performance Data				
Engine Make & Model:		6BTAA5.9-G2		
Alternator Mode	UCI274D			
Alternator Brand:		STAMFORD		
Control System:		PLC-920 / PLC-7420		
Noise Level@7m:		63.9		
Frequency & Phase:		60Hz & 3PH		
Engine Speed: RPM		1800		
Structure Type:	X125C6	А		
	X125C6S	R		
Fuel Tank Capacity: L	X125C6	225		
	X125C6S	300		
Fuel Consumption: I/hr (100% Load)	Prime	30		
	Standby	34		

Also available in the following voltages: 415/240V-380/220V-220/127V-200/115V;

ESP: Standby Power Standby duty, operation under variable load, without over load;

PRP: Prime Power-Continuous duty operation, under variable load 24/24h-10% over load permissible 1 hour/12 hours; The data is only for your reference but not for use of sales.

M: Mechanical speed governor, E/ECU: Electronic speed governor;

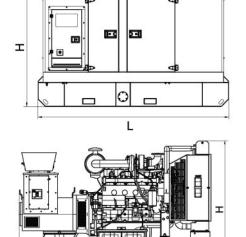
NA: Naturally aspirated, TC: Turbocharged, TCA: Turbocharged and air-air aftercooled. TCW: Water-cooled Turbocharged; The weights are approximate and without fuel.

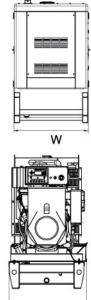


Output Ratings					
Generating Set Model	Prime	Standby			
X125C6/S	140kVA/112kW	154kVA/123kW			

Ratings at 0.8 power factor.

Dimensions and Weights						
Generating Set Model	Length (L) mm (in)	Width (W) mm (in)	Height (H) mm (in)	Dry kg (lb)		
X125C6	2204	949	1540	1253		
X125C6S	3312	1150	1831	2078		
Dry = With Lube Oil Wet = With Lube Oil and Coolant						





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Engine model: 6BTAA5.9-G2

Typical engine data		
Net weight	kg	411
Rotate part instantaneous inertia _ without flywheel	kg.m2	0.25
Distance between gravity center and rear surface of cylinder block	mm	544
Distance between gravity center and center line above of crankshaft	mm	155
Engine installation		
Static bent torque permitted—rear surface of cylinder block	N.m	1356
Static bent torque permitted—front surface of cylinder block	N.m	435
Static bent torque permitted—flank surface of cylinder block	N.m	365
Exhaust system		
Max. back pressure	mmHg	76
Diameter of exhaust pipe recommended	mm	75
Air intake system		
Max. air intake resistance		
Dirty filter	mmH2O	635
Normal air cleaner and clean filter	mmH2O	254
Heavy duty cleaner and clean filter	mmH2O	381
Diameter of intake pipe recommended	mm	100
Lubrication evetom		
Lubrication system Normal oil pressure range		
Low idle	kPa	207
Rated speed	kPa	345
Max. oil temperature permitted in oil pan	°C	121
Oil pan capacity (Max _ Min)	Ĺ	14.2_12.3
Lubrication system Min. capacity (oil pan + oil filter)	L	16.4
Usage inclining degree permitted (any direction)	•	40
Fuel system		
Fuel injection pump model	PB pump _ GAC gove	
Max. fuel input resistance of transfer pump	mmHg	102
Max. overflow fuel resistance at overflow pipe of injector	mmHg	254
Total fuel overflow amount	L/h	30
Cooling system		
Coolant capacity-engine only	L	9.9
Max. coolant cycling resistance exterior engine	kPa	28
Thermostat adjusting temperature (range)	$^{\circ}\!\mathbb{C}$	82_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	${\mathbb C}$	104/100
Electric system	4017	241
Starter Battery charging system	12V 63A	24V 40A
Max. starting circuit resistance	0.00075Ω	0.002Ω
Min. battery capacity12°C (CCA: Cold Cranking Ampere)	800CCA	400CCA
Nilli. battery capacity12 © (OOA: Cold Granking Ampere)	OUUCCA	400CCA
Technical data _ under standard fuel delivery rate FR 9266-03	Base output Power	Standby Power
Engine speed _ RPM	1500	1500
Output Power _ kW	120	130
Torque _ Nm	764	828
Low idle _ RPM	750-850	750-850
Friction energy output _ kW	12.7	12.7
Piston speed _ m/s	6.0	6.0
Engine coolant flow _ L/sec	2.0	2.0
Air intake flow _ L/sec	135	145
Exhaust flow _ L/sec	293	324
Exhaust temperature _ °C	481	495
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	45	50
Fuel energy output _ kW	N/A	N/A



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Alternator model: UCI274D

CONTROL SYSTEM	SEPARATELY EXCITED BY P.M.G.							
A.V.R.	MX321 MX341							
VOLTAGE REGULATION	± 0.5 % ± 1.0 % With 4% ENGINE GOVERNING							
SUSTAINED SHORT CIRCUIT								
SUSTAINED SHORT CIRCUIT	REFER TO SHORT CIRCUIT DECREMENT CURVES (page 7)							
CONTROL SYSTEM	SELF EXCIT	ED						
A.V.R.	SX460 AS440							
VOLTAGE REGULATION	± 1.0 % ± 1.0 % With 4% ENGINE GOVERNING							
SUSTAINED SHORT CIRCUIT	SERIES 4 CONTROL DOES NOT SUSTAIN A SHORT CIRCUIT CURRENT							
INSULATION SYSTEM	CLASS H							
PROTECTION	IP23							
RATED POWER FACTOR				0.	8			
STATOR WINDING			DOL	JBLE LAYER	CONCENT	RIC		
WINDING PITCH				TWO T	HIRDS			
WINDING LEADS				1:				
STATOR WDG. RESISTANCE		0.044.0	hms PER PH			TAD CONNE	CTED	
		0.044 0	AIIIIS I LIXI I			TAIL COMME	LOTED	
ROTOR WDG. RESISTANCE				1.26 Ohm:				
EXCITER STATOR RESISTANCE				20 Ohms				
EXCITER ROTOR RESISTANCE					PHASE AT 2			
R.F.I. SUPPRESSION	BS EN	61000-6-2 &	BS EN 6100	0-6-4,VDE 0	875G, VDE 0	875N. refer t	o factory for	others
WAVEFORM DISTORTION	NO LOAD < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%							
MAXIMUM OVERSPEED				2250 R	ev/Min			
BEARING DRIVE END				BALL. 6315	-2RS (ISO)			
BEARING NON-DRIVE END				BALL. 6310-	-2RS (ISO)			
		1 BE <i>A</i>	ARING			2 BEA	RING	
WEIGHT COMP. GENERATOR		431	1 kg		450 kg			
WEIGHT WOUND STATOR			1 kg		141 kg			
WEIGHT WOUND ROTOR	149.37 kg			138.41 kg				
WR² INERTIA	1.1962 kgm ²			1.1455 kgm ²				
SHIPPING WEIGHTS in a crate			3 kg x 103(cm)		476 kg 105 x 67 x 103(cm)			
PACKING CRATE SIZE			Hz					
TELEPHONE INTERFERENCE			:<2%		60 Hz TIF<50			
COOLING AIR			ec 1090 cfm			0.617 m³/sec		
VOLTAGE SERIES STAR	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
VOLTAGE PARALLEL STAR	190/110	200/115	208/120	220/127	208/120	220/127	230/133	240/138
VOLTAGE SERIES DELTA	220/110	230/115	240/120	254/127	240/120	254/127	266/133	277/138
KVA BASE RATING FOR REACTANCE	114	120	114	N/A	131.3	137.5	137.5	146.3
VALUES Xd DIR. AXIS SYNCHRONOUS	2.17	2.06	1.82	-	2.52	2.36	2.16	2.11
X'd DIR. AXIS TRANSIENT	0.18	0.18	0.16	-	0.21	0.20	0.18	0.17
X"d DIR. AXIS SUBTRANSIENT	0.10	0.10	0.10		0.15	0.14	0.13	0.17
Xq QUAD. AXIS REACTANCE	1.39	1.32	1.17		1.49	1.39	1.28	1.25
X"q QUAD. AXIS SUBTRANSIENT	0.16	0.16	0.14	-	0.21	0.20	0.18	0.17
XL LEAKAGE REACTANCE	0.07	0.06	0.06	_	0.07	0.07	0.06	0.06
X2 NEGATIVE SEQUENCE	0.14	0.13	0.12	_	0.17	0.16	0.15	0.14
X ₀ ZERO SEQUENCE	0.09	0.08	0.07	_	0.10	0.09	0.09	0.08
REACTANCES ARE SATURAT			ALUES ARE	PER UNIT A				
T'd TRANSIENT TIME CONST.				0.03				
T"d SUB-TRANSTIME CONST.				0.0				
T'do O.C. FIELD TIME CONST.	0.85 s							
Ta ARMATURE TIME CONST.	0.0073 s							
SHORT CIRCUIT RATIO	1/Xd							