

### X95C6 / X95C6S

#### 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.



Output Ratings					
Generating Set Model	Prime	Standby			
X95C6/S	110kVA/88kW	121kVA/97kW			

Ratings at 0.8 power factor.

Ratings and Performance Data					
Engine Make & Mo	6BT5.9-G2				
Alternator Mode	UCI274C				
Alternator Brand:		STAMFORD			
Control System:		PLC-920 / PLC-7420			
Noise Level@7m:		63.6			
Frequency & Phase:		60Hz & 3PH			
Engine Speed: RPM		1800			
Structure Type:	X95C6	A			
on dotale Type.	X95C6S	R			
Fuel Tank Capacity: L	X95C6	213			
	X95C6S	300			
Fuel Consumption: I/hr (100% Load)	Prime	22			
	Standby	25			

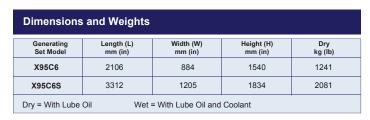
Also available in the following voltages: 415/240V-380/220V-220/127V-200/115V;

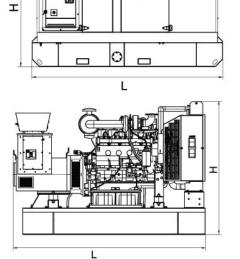
**ESP:** Standby Power Standby duty, operation under variable load, without over load;

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.





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N/A

N/A

## Engine model: 6BT5.9-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
Diameter of make pipe recommended	111111	100
Lubrication system		
Normal oil pressure range		
·	I-Da	207
Low idle	kPa	207
Rated speed	kPa	345
Max. oil temperature permitted in oil pan	°C	121
Oil pan capacity (Max _ Min)	L	14.2_12.3
Lubrication system Min. capacity (oil pan + oil filter)	L	16.4
Usage inclining degree permitted (any direction)	0	40
Fuel system		
Fuel injection pump model	A pump _ GAC gover	
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	202
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	$^{\circ}\! \mathbb{C}$	104/100
Electric system		
·		
Starter	12V	24V
Battery charging system	63A	40A
Battery charging system Max. starting circuit resistance	63A 0.00075Ω	40A 0.002Ω
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Battery charging system  Max. starting circuit resistance  Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589	63A 0.00075Ω	40A 0.002Ω
Battery charging system  Max. starting circuit resistance  Min. battery capacity12°C (CCA: Cold Cranking Ampere)	63A 0.00075Ω 800CCA	40A 0.002Ω 400CCA
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW	63A 0.00075Ω 800CCA Base output Power	40A 0.002Ω 400CCA <b>Standby Power</b> 1500 92
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW Torque _ Nm	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548	40A 0.002Ω 400CCA <b>Standby Power</b> 1500 92 586
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86	40A 0.002Ω 400CCA <b>Standby Power</b> 1500 92
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Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM Friction energy output _ kW	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548 750-950 12.7	40A 0.002Ω 400CCA Standby Power 1500 92 586 750-950 12.7
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM Friction energy output _ kW Piston speed _ m/s	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548 750-950 12.7 6.0	40A 0.002Ω 400CCA Standby Power 1500 92 586 750-950 12.7 6.0
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589  Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM Friction energy output _ kW Piston speed _ m/s Engine coolant flow _ L/sec	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548 750-950 12.7 6.0 2.0	40A 0.002Ω 400CCA Standby Power 1500 92 586 750-950 12.7 6.0 2.0
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM Friction energy output _ kW Piston speed _ m/s Engine coolant flow _ L/sec Air intake flow _ L/sec	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548 750-950 12.7 6.0 2.0 100	40A 0.002Ω 400CCA Standby Power 1500 92 586 750-950 12.7 6.0 2.0 108
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589 Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM Friction energy output _ kW Piston speed _ m/s Engine coolant flow _ L/sec Air intake flow _ L/sec Exhaust flow _ L/sec	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548 750-950 12.7 6.0 2.0 100 250	40A 0.002Ω 400CCA Standby Power 1500 92 586 750-950 12.7 6.0 2.0 108 280
Battery charging system Max. starting circuit resistance Min. battery capacity12°C (CCA: Cold Cranking Ampere)  Technical data _ under standard fuel delivery rate FR 91589  Engine speed _ RPM Output Power _ kW Torque _ Nm Low idle _ RPM Friction energy output _ kW Piston speed _ m/s  Engine coolant flow _ L/sec Air intake flow _ L/sec Exhaust flow _ L/sec Exhaust temperature _ °C	63A 0.00075Ω 800CCA <b>Base output Power</b> 1500 86 548 750-950 12.7 6.0 2.0 100 250 526	40A 0.002Ω 400CCA Standby Power 1500 92 586 750-950 12.7 6.0 2.0 108 280 565

Fuel energy output \_ kW



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## Alternator model: UCI274C

CONTROL SYSTEM	SEPARATELY EXCITED BY P.M.G.							
A.V.R.	MX321	MX341						
VOLTAGE REGULATION	± 0.5 %							
SUSTAINED SHORT CIRCUIT	REFER TO SHORT CIRCUIT DECREMENT CURVES (page 7)							
TELETTO SHOTT DESIGNATION ON O								
CONTROL SYSTEM	SELF EXCIT	TED						
A.V.R.	SX460	AS440						
VOLTAGE REGULATION	± 1.0 %	± 1.0 %	With 4% EN	GINE GOVE	RNING			
SUSTAINED SHORT CIRCUIT	SERIES 4 C	ONTROL DO	DES NOT SU	STAIN A SH	ORT CIRCUI	T CURRENT		
INSULATION SYSTEM	INSULATION SYSTEM CLASS H							
PROTECTION	IP23							
RATED POWER FACTOR				0.	8			
STATOR WINDING			DOL	JBLE LAYER	R CONCENTE	RIC		
WINDING PITCH				TWO T				
				1770 1				
WINDING LEADS						T. D. OOLULE		
STATOR WDG. RESISTANCE		0.059 O	nms PER PF		C SERIES S	TAR CONNE	CIED	
ROTOR WDG. RESISTANCE				1.12 Ohms	s at 22°C			
EXCITER STATOR RESISTANCE				20 Ohms	at 22°C			
EXCITER ROTOR RESISTANCE			0.091	Ohms PER	PHASE AT 2	22°C		
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	BALANCE	LINEAR LC	AD < 5.0%	
MAXIMUM OVERSPEED	2250 Rev/Min							
BEARING DRIVE END	BALL. 6315-2RS (ISO)							
BEARING NON-DRIVE END				BALL. 6310-	` ,			
BEAKING NON-BRIVE END		1 RFA	ARING	D/LL. 0010	2110 (100)	2 BEA	RING	
WEIGHT COMP. GENERATOR			i kg		420 kg			
WEIGHT WOUND STATOR	131 kg			131 kg				
WEIGHT WOUND ROTOR	133.78 kg			122.82 kg				
WR² INERTIA	1.0288 kgm <sup>2</sup>			0.9781 kgm <sup>2</sup>				
SHIPPING WEIGHTS in a crate	439 kg			452 kg				
PACKING CRATE SIZE	105 x 67 x 103(cm) 105 x 67 x 103(cm)							
	50 Hz 60 Hz							
TELEPHONE INTERFERENCE	THF<2%			TIF<50				
COOLING AIR	000/000		c 1090 cfm	440/054	0.617 m³/sec 1308 cfm 416/240 440/254 460/266 480/277			
VOLTAGE SERIES STAR	380/220		415/240					
VOLTAGE PARALLEL STAR	190/110	200/115	208/120	220/127	208/120	220/127	230/133	240/138
VOLTAGE SERIES DELTA kVA BASE RATING FOR REACTANCE	220/110	230/115	240/120	254/127	240/120	254/127	266/133	277/138
VALUES VALUES	100	100	100	N/A	112.5	117.5	117.5	125
Xd DIR. AXIS SYNCHRONOUS	2.45	2.21	2.05	-	2.76	2.58	2.36	2.30
X'd DIR. AXIS TRANSIENT	0.20	0.18	0.17	-	0.24	0.22	0.21	0.20
X"d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	-	0.16	0.15	0.14	0.13
Xq QUAD. AXIS REACTANCE	1.59	1.43	1.33	-	1.58	1.48	1.35	1.32
X"q QUAD. AXIS SUBTRANSIENT	0.18	0.16	0.15	-	0.23	0.21	0.20	0.19
XL LEAKAGE REACTANCE	0.07	0.06	0.06	-	0.08	0.07	0.07	0.07
X2 NEGATIVE SEQUENCE	0.16	0.14	0.13	-	0.19	0.18	0.16	0.16
X <sub>0</sub> ZERO SEQUENCE	0.10	0.09	0.08	-	0.12	0.11	0.10	0.10
REACTANCES ARE SATURAT	ED	VA	ALUES ARE		T RATING A	ND VOLTAGI	INDICATE	D
T'I CUB TRANSIENT TIME CONST.				0.02				
T'd SUB-TRANSTIME CONST.	0.001 s 0.8 s							
T'do O.C. FIELD TIME CONST.  Ta ARMATURE TIME CONST.	0.8 S 0.007 S							
SHORT CIRCUIT RATIO	1/Xd							
STORT SILCOTT IATIO	II/Au							