

USA



C-SERIES

6 CYLINDERS IN LINE – DIESEL CYCLE

C13 500

@2000 rpm

- C 382 kW (520 HP)
- D 368 kW (500 HP)

C13 825

@2400 rpm

- A1 607 kW (825 HP)
- A2 552 kW (750 HP)
- B 478 kW (650 HP)
- C 442 kW (600 HP)



Motor-Services Hugo Stamp, Inc.
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Technical Data



	C13 500	C13 825
Total Displacement	12.88l (786.0 cuin)	
Dry Weight (without gear)	2,965 lbs (1,345 kg)	3,086 lbs (1,400 kg)
Bore x Stroke	135 x 150 mm (5.31 x 5.91 in)	
Aspiration	TAA	
Direction of Rotation	CCW facing flywheel	
Configuration / Injection System	In-line 6 Cylinder, 4 Stroke Diesel, Electronic Unit Injection	
Voltage	24V	
Flywheel Housing	SAE#1	
Flywheel Size	14 in	
Starting motor	24 V – 5.5 kW	
Alternator	28 V – 90 A	
Painting	White “Ice”	

Engine Benefits

PERFORMANCE: Engine derived from the experience in sport competitions at high levels; leader in its category for specific power, weights and volumes; maximum optimization of consumption and emissions in every mission thanks to ECR (Electronic Common Rail) system with electronic management.

SERVICEABILITY: Electronic control, protection and diagnostics for the engine systems; world wide dealer and service network.

RELIABILITY: Compact and functional design; long engine life.

COST EFFECTIVENESS: Consumption optimization; high level of serviceability.

ENVIRONMENTALLY FRIENDLY: Reduced environmental impact in terms of noise, gaseous emissions and vibrations.

CUSTOMER ORIENTATION: Availability of certifications in compliance with international regulations; wide range of accessories.

True innovation comes from within

FPT (Fiat Powertrain Technologies) believes in the constant innovation and improvement of its products. It believes in pursuing excellence, in the constant training of its personnel and in team building. It believes that even the most extreme technology can surpass itself. Respecting these values can only be guaranteed with a daily strive for excellence.

FPT (Fiat Powertrain Technologies) wants to be a point of reference in the powertrain world, designing and developing products that stand out for their performance, quality and reliability, cost effectiveness, safety and low environmental impact. It is only with a great knowledge and experience that you can reach and surpass these objectives.

FPT Marine Engines

for Commercial and Pleasure Craft Applications



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FPT focuses on the development of clean, efficient engines, with emphasis on emissions and fuel consumption. FPT is one of the largest diesel engine manufacturers worldwide. Due to the high output of units FPT is able to offer high quality engines at competitive prices!

Ratings

A1	A2	B	C	D
High Performance Crafts 500-1000 hours/year 10% at wide open throttle	Pleasure/ Light Duty Commercial 1000-2000 hours/ year 10% at wide open throttle	Light/ Medium Duty Commercial 1500-3000 hours / year 15% at wide open throttle load factor of up to 50%	Light/ Medium Duty Commercial 3000-5000 hours / year 25% at wide open throttle load factor from 15 up to 75%	Heavy Duty Commercial unlimited hours / year 100 % at wide open throttle load factor 100%

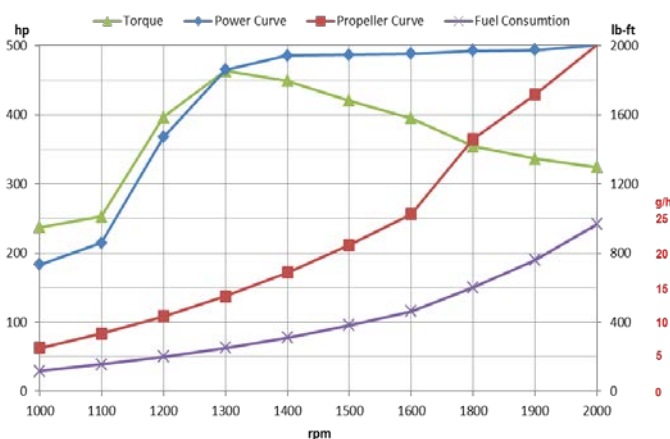
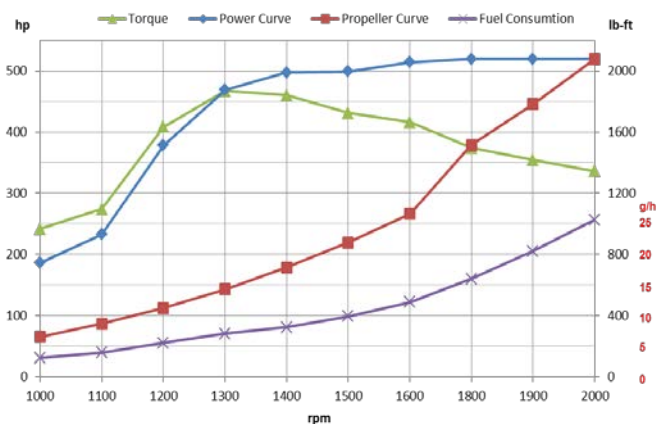
All ratings: Cruise speed max. 90% of rated rpm

Power, Fuel and Torque Data*

C13 500

C13 500 - C (520 hp @ 2000rpm)							
rpm	POWER CURVE		PROPELLER CURVE		Fuel CURVE		Torque
	kW	hp	kW	hp	be	g/h	lb-ft
2000	382	520	382	520	213	25.7	1346
1900	382	520	328	446	204	21.0	1417
1800	382	520	279	379	201	17.6	1496
1600	378	514	196	266	198	12.2	1665
1500	367	499	161	219	195	9.9	1724
1400	366	498	131	178	196	8.1	1842
1300	345	469	105	143	196	6.5	1870
1200	278	378	83	112	196	6.5	1633
1100	171	232	64	86	197	3.9	1095
1000	137	186	48	65	205	3.1	965

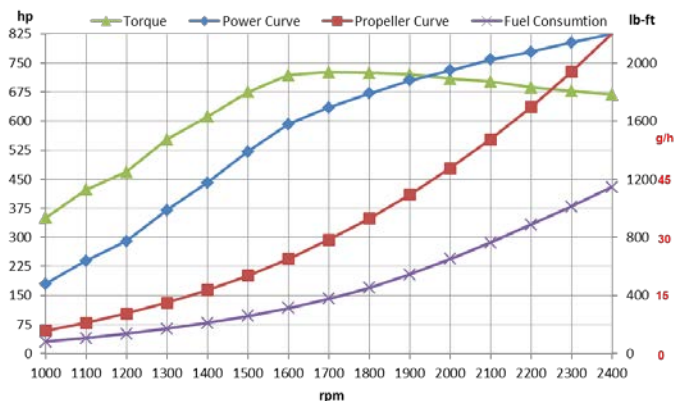
C13 500 D (500 hp @ 2000rpm)							
rpm	POWER CURVE		PROPELLER CURVE		Fuel CURVE		Torque
	kW	hp	kW	hp	be	g/h	lb-ft
2000	368	501	368	501	209	24.2	1297
1900	363	494	316	429	204	20.3	1347
1800	362	493	268	365	201	17.0	1418
1600	359	488	189	256	195	11.6	1581
1500	358	487	155	211	196	9.6	1682
1400	357	486	126	172	195	7.7	1797
1300	342	465	101	138	198	6.3	1854
1200	270	368	80	108	201	5.0	1586
1100	158	215	61	83	203	3.9	1012
1000	135	184	46	63	202	2.9	951



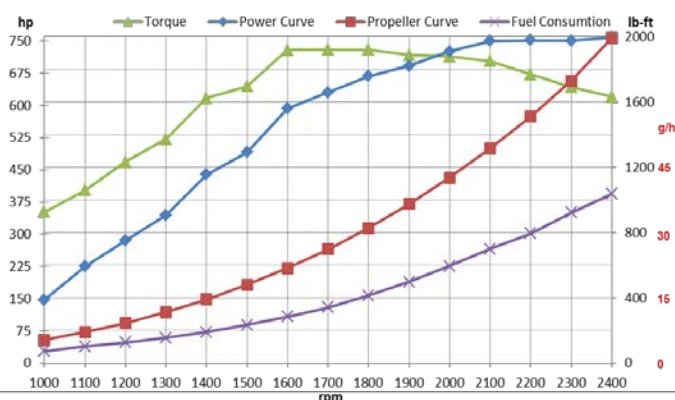
Power, Fuel and Torque Data*

C13 825

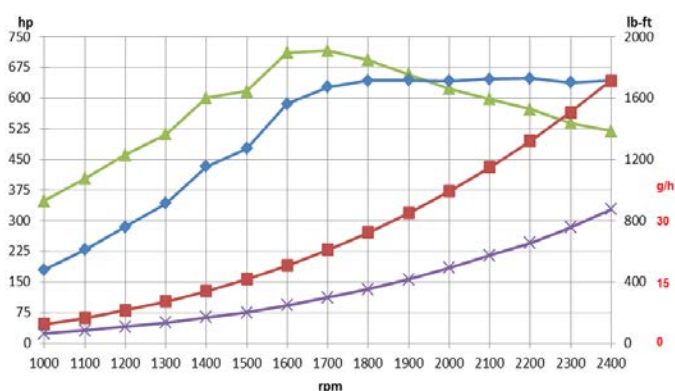
C13 825 - A1 (825 hp @ 2400rpm)							
rpm	POWER CURVE		PROPELLER CURVE		Fuel CURVE		Torque
	kW	hp	kW	hp	be	g/h	lb-ft
2400	607	825	607	825	225	42.9	1781
2300	590	802	534	726	226	37.9	1807
2200	572	778	468	636	227	33.3	1831
2100	558	759	407	553	224	28.6	1871
2000	537	730	351	478	221	24.4	1891
1900	518	704	301	409	216	20.4	1920
1800	494	671	256	348	211	17.0	1931
1700	467	635	216	293	209	14.2	1935
1600	435	592	180	245	208	11.8	1917
1500	383	521	148	201	208	9.7	1798
1400	324	441	120	164	208	7.9	1630
1300	272	370	96	131	212	6.4	1474
1200	213	289	76	103	216	5.2	1250
1100	176	239	58	79	219	4.0	1127
1000	133	180	44	60	223	3.1	933



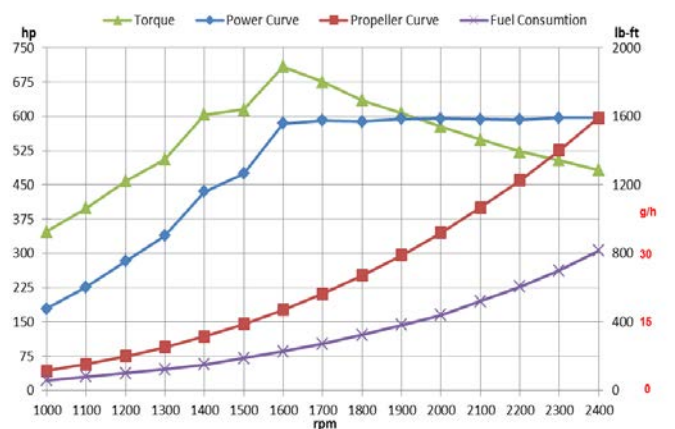
C13 825 - A2 (750 hp @ 2400rpm)							
rpm	POWER CURVE		PROPELLER CURVE		Fuel CURVE		Torque
	kW	hp	kW	hp	be	g/h	lb-ft
2400	557	757	557	757	225	39.4	1633
2300	552	751	490	657	228	35.0	1691
2200	553	752	429	575	224	30.2	1769
2100	552	750	373	500	227	26.6	1851
2000	534	726	322	432	223	22.6	1880
1900	509	693	276	370	218	18.9	1888
1800	491	668	235	315	213	15.7	1922
1700	464	630	198	265	209	13.0	1921
1600	436	593	165	221	209	10.8	1920
1500	361	491	136	182	207	8.8	1696
1400	323	439	110	148	208	7.2	1625
1300	253	345	88	119	212	5.9	1373
1200	210	285	70	93	219	4.8	1232
1100	166	225	54	72	227	3.8	1060
1000	132	147	40	54	222	2.8	926



C13 825 - B (650 hp @ 2400rpm)							
rpm	POWER CURVE		PROPELLER CURVE		Fuel CURVE		Torque
	kW	hp	kW	hp	be	g/h	lb-ft
2400	472	642	472	642	221	32.8	1386
2300	469	638	416	565	217	28.3	1437
2200	477	649	364	495	222	25.3	1527
2100	475	646	316	430	216	21.4	1594
2000	472	642	273	372	215	18.5	1663
1900	473	643	234	319	212	15.6	1754
1800	473	642	199	271	212	13.3	1849
1700	461	627	168	228	212	11.2	1909
1600	431	586	140	190	211	9.3	1897
1500	350	476	115	157	208	7.5	1645
1400	318	432	94	127	215	6.3	1600
1300	252	342	75	102	213	5.0	1364
1200	209	285	59	80	217	4.0	1229
1100	168	228	45	62	218	3.1	1075
1000	132	180	34	46	222	2.4	931

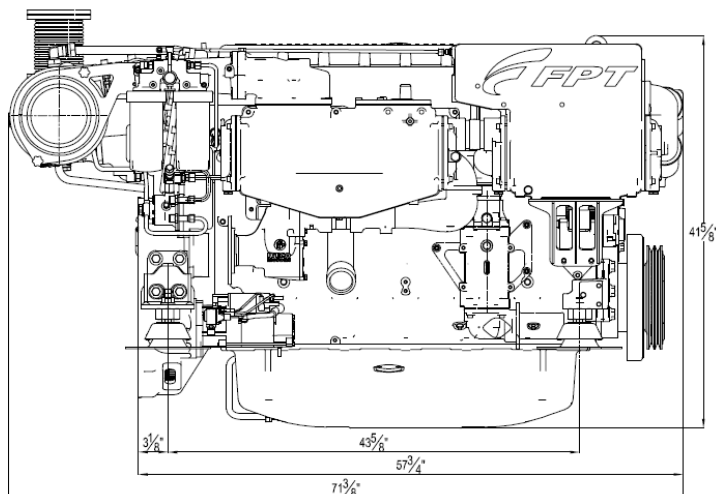
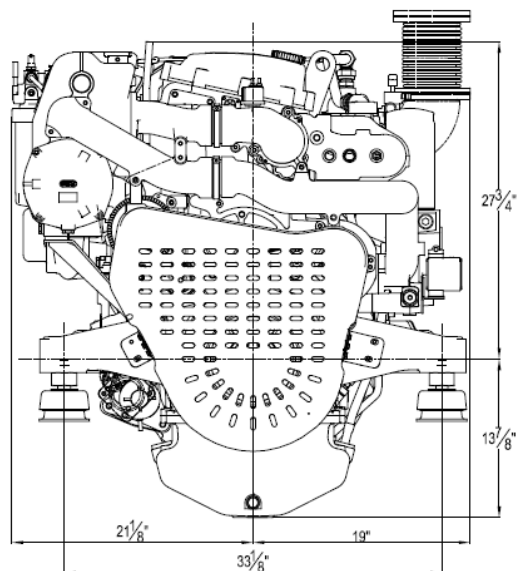


C13 825 - C (600 hp @ 2400rpm)							
rpm	POWER CURVE		PROPELLER CURVE		Fuel CURVE		Torque
	kW	Bhp	kW	Bhp	be	g/h	lb-ft
2400	439	597	439	597	222	30.6	1288
2300	439	597	386	525	216	26.3	1344
2200	436	593	338	460	221	23.5	1395
2100	437	594	294	400	212	19.6	1465
2000	438	595	254	345	213	17.0	1541
1900	437	594	218	296	210	14.3	1620
1800	433	589	185	252	209	12.2	1695
1700	435	591	156	212	208	10.2	1802
1600	430	584	130	177	210	8.6	1892
1500	349	475	107	146	211	7.1	1639
1400	320	435	87	118	209	5.7	1611
1300	249	339	70	95	212	4.7	1349
1200	208	283	55	75	221	3.8	1223
1100	166	226	42	57	228	3.0	1064
1000	132	179	32	43	224	2.2	928

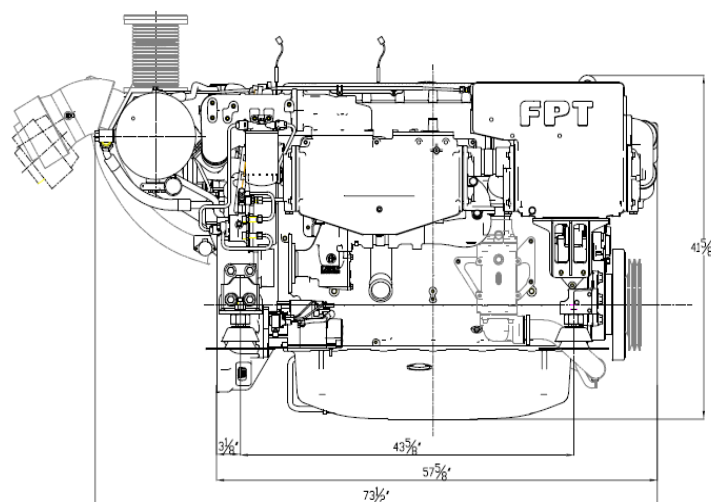
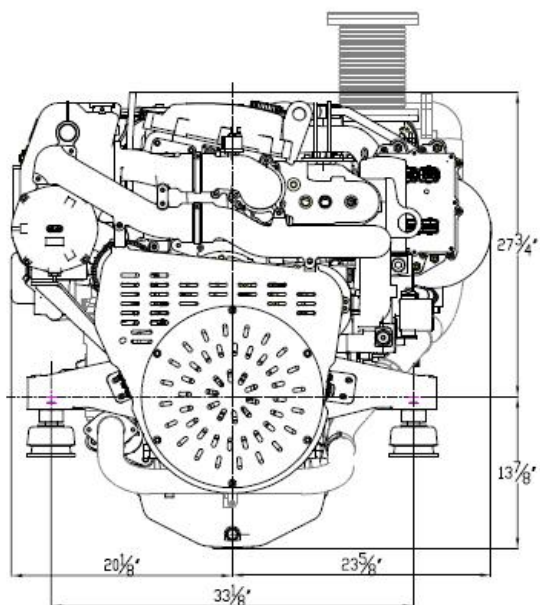


Dimensions

C13 500



C13 825



USA



SALES



SERVICE



PARTS



Motor-Services Hugo Stamp, Inc.

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C13 TE3X

371 kW@1800 rpm
EPA/CARB TIER3

Specifications

Thermodynamic cycle		Diesel 4 stroke
Air intake		TAA
Arrangement		6, in line
Bore x Stroke	mm	135 x 150
Total displacement	l	12.9
Valves per cylinder		4
Injection system		electronic unit injector
Speed governor		electronic
Cooling system		liquid (water + 50% Paraflu11)
Flywheel housing/flywheel	type	SAE1 / 14"
Flywheel rotation		CCW
Lube oil specifications		ACEA E3-E5
Lube oil consumption		<0.1% of fuel consumption
Fuel specifications		EN 590
Oil and filters intervals for replacement	hours	600
Fuel consumption at:	rpm	1800
	100% load l/h (g/kWh)	92.7 (210.5)
	80% load l/h (g/kWh)	82.3 (223.6)
	50% load l/h (g/kWh)	54.3 (220.7)
Coolant capacity: engine only	l	~19.5
engine+radiator	l	~67
ATB (without canopy)	°C	50
No remote cooling radiator allowed		
Lube oil total system capacity including pipes, filters etc.	l	~35
Electrical system		24Vcc
Starting batteries: recommended capacity	Ah	2x185
Discharge current (EN 50342)	A	1200
Cold starting: without air preheating	°C	-15
with air preheating	°C	-25

Performances

Ratings ¹		1800 rpm	
		PRIME	STAND-BY
Rated Output ²	kWm	337	371

1) Ratings in accordance with ISO 8528. For duty at temperature over 40°C and/or altitude over 1000 meters must be considered a power derating factor. Contact the FPT sales organization.

2) Net power at flywheel available after 50 hours running with a $\pm 3\%$ tolerance.

PRIME POWER: The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER: The stand-by power is the maximum power available for a period of 500 hours/year with a mean load factor of 90% of the declared stand-by power. No kind of overloads is permissible for this use.

CONTINUOUS POWER: Contact the FPT sales organization.

Standard configuration

FPT engine C13 TE3X equipped with:

- Mounted radiator incorporating air-to-air charge cooler
- Front radiator guard
- Oil drain pump
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter / water separator
- Replaceable oil filter
- Electronic engine control unit, pump injector unit with wiring loom and sensors
- Interface box
- WT and OP sensors for gauges
- HWT and LOP sensors
- Front engine mounting brackets
- Flywheel housing SAE1 and flywheel 14"
- Re-directable exhaust gas elbow
- Recircled oil breather system
- Oil dipstick
- User's handbook

THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

Optional equipment:

On request the engine can be supplied with:

- 230 Volt water jacket heater
- Turbo and exhaust gas guards
- Exhaust gas flexible joint
- Low water level sensors

Overall dimensions:

