



Global Power Solution Provider



50 Hz

Kirloskar
Fiji

KIRLOSKAR GENERATORS FIJI & THE SOUTH PACIFIC

Thank you for your enquiry about Kirloskar Brand Generators Sets, suitable for different power applications.

Total Power Solution is our commitment. The people behind Kirloskar supply backup power generation solutions in more than 70 countries worldwide!

We at **CHL**, a **wholly owned subsidiary of the Tappoo Group**, have the knowledge, expertise and capacity to supply, install, commission and service Kirloskar branded generators!

Our electrical subcontractors who install generators are well versed and all the proposed work will be done according to **AS/NZ: 300-2018 wiring rules OHS and EFL standard.**

We offer **world class automatic transfer switches** with Schneider branded breakers as standard practice.

All in all, we provide a **turn-key solution** from coordination local transportation, unloading at customer's site, Foundation works, earthwork, cabling, change over switch, installation, commissioning and full back up service including the administering of a preventative maintenance program. We believe in no stones being left unturned to provide you the best possible service, value for money and a great overall experience.



KIRLOSKAR IMBIBING THE TAPPOO VISION



Trust

For decades, generations of Fijians and international travellers have placed their trust in Tappoo to deliver quality products and services.



Care

We care about our customers, our staff, our suppliers and our community.



Integrity

We believe in doing business in a rightful manner – with honesty and integrity.



Our Vision

- To create a win-win situation for all who choose to associate with us.
- To exceed expectations of quality, execution and service.
- To act with integrity and quality in everything we do.

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Kirloskar Quality: Accolades and Certification



Why Kirloskar?

Rich Heritage of
over a century
of engineering excellence

Designing and manufacturing diesel engines
since 1946

Annual sales of nearly
200,000 engines

Global presence covering more than
50+ countries

State-of-the-art
R&D and manufacturing facilities

Thoughtful Design. Unmatched Features. Immense Benefits.

Kirloskar generating sets have been designed giving highest consideration to end users, offering unmatched features and immense benefits to them. From easy installation and increased reliability to faster service, lower maintenance costs and increased uptimes. Kirloskar generating sets offer distinct advantages which set new standards in engineering. That's Kirloskar Generating Sets for You!



Unmatched Features



Low fuel consumption



Extended service intervals



Low maintenance cost



Easy installation



500 hours service interval*
subject to usage of 15W40-CI4 grade oil.



* Except 1010 kVA

External Features



1 Door for radiator access
Access to radiator for faster service.

2 Silencer mounted inside canopy
Improved safety & reduced sound level

3 Mesh on exhaust tail pipe
Prevents entry of pests / rodents

4 Top lifting arrangement
Easy to lift by crane

5 Emergency stop switch
Easily accessible on canopy for stopping

6 Glass window on canopy
Easy to read generating set parameters & safe

7 Stainless steel door hinges
Heavy-duty, anti-corrosive & long lasting

8 Fuel tank full with indicator lamp
Prevents fuel spillage / wastage & improves safety

9 External fuel tank
filling access Ease of refueling

10 Stainless steel door locks
High durability & improved security

11 Coolant drain arrangement
Easy access for faster service

12 Pockets for forklift Facilitates easy handling & installation



Provision of gland plate
Easy cable entry & improved safety

Internal Features



1 High quality door rubber beading
Better sound attenuation & ingress protection

2 Heat insulated exhaust line
Improved engine cooling efficiency & serviceability

3 Coolant level sensor
Supplementary engine protection


4 High quality PU foam
Superior sound attenuation, long life, dust resistant & fire retardant


5 Guard for rotating parts
Enhanced safety


6 Water separator as a standard feature
Prevents water entry into engine

7 Lube oil drain pump
Faster oil drain, reduces downtime, eliminates need of additional tray

8 Control panel door stopper
Facilitates service & improves safety

 Longer fuel tank breather tube
Prevents fuel spillage due to overfilling

 High efficiency LED lamp
Extra bright & low power consumption

 Dual Fuel gauge
(Mechanical + Electrical)
Easy fuel level reading while re-fueling

 SMF batteries

GENERATING SETS

Model	17W50	22W50	33W50	44W50-3	44W50-4	69W50	91W50	110W50	138W50	176W50	220W50	275W50	352W50	440W50	550W50	660W50	825W50	1111W50
	17WS50	22WS50	33WS50	44WS0-3	44WS0-4	69WS50	91WS50	110WS50	138WS50	176WS50	220WS50	275WS50	352WS50	440WS50	550WS50	660WS50	825WS50	1111WS50
Voltage	L-L V 380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240	380 400 415 220 230 240
Standby Power Output	KVA 16.5	22	33	44	44	69	91	110	138	176	220	275	352	440	550	660	825	1111
Prime Power Output	KW 13.2	17.6	26.4	35.2	35.2	55	72.6	88	110	140.8	176	220	281.6	352	440	528	660	888.8
Fuel consumption (at % of PRP)	L/Hr 2.0	2.6	3.7	5.1	5.1	7.6	9.7	10.7	15.5	19.1	24	29.8	40.5	46.4	61.2	70.7	83	120.6
Fuel Tank Capacity	L 43	43	75	95	95	150	150	225	225	350	310	310	530	530	860	930	990	900
Sound Level at 7m	dB(A) 70	70	70	70	70	70	70	70	70	70	70	70	70	70	75	75	80	80
Dimensions (LxWxH) (as per GA drawing)	cm 141 x 104 x 133	141 x 104 x 133	150 x 109 x 134	175 x 109 x 136	175 x 109 x 136	211 x 106 x 146	211 x 106 x 146	224 x 104 x 160	224 x 104 x 160	259 x 133 x 173	311 x 154 x 170	311 x 154 x 170	339 x 166 x 220	339 x 166 x 220	365 x 184 x 235	379 x 178 x 236	398 x 230 x 240	454 x 210 x 251
Dry weight (net) approx.	kg 650	700	790	840	840	1100	1200	1450	1510	1910	2320	2320	4250	4550	4750	5200	5880	8650
SAE kg	920	970	1100	1310	1310	1630	1950	2120	2180	2720	3440	3670	6000	6300	7100	7830	7850	13200

KIRLOSKAR ENGINE (LIQUID COOLED, 4 STROKE, DIESEL ENGINE)

Model	2R1040	2R1040	3R1040	3R1040TA	4R1040	4R1040TC	4R1040TA	4K1080TA	4K1080TA	6K1080TA	6SL1500TA	6SL8800TA	DV8	DV8	DV10	DV12	DV12ETAG12	DV16 ETA G1
Engine output	hp 27	27	42	56	56	83	105	156	156	200	248	310	400	490	608	750	901	1210
Cyls & configuration	2 - In-line	2 - In-line	3 - In-line	3 - In-line	4 - In-line	4 - In-line	4 - In-line	4 - In-line	4 - In-line	6 - In-line	6 - In-line	6 - In-line	8 - V	8 - V	10 - V	12 - V	12 - V	16 - V
Bore x Stroke	mm 105 x 120	105 x 120	105 x 120	105 x 120	105 x 120	105 x 120	105 x 120	105 x 125	105 x 125	105 x 125	118 x 135	118 x 135	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150	130 x 150
Compression ratio	18:1	18:1	18:1	18:1	18:01	18:1	18:1	15.5:1	15.5:1	15.5:1	17.5:1	17.5:1	16.5:1	16.5:1	16.5:1	16.5:1	16.5:1	16.5:1
Displacement	L 2.08	2.08	3.12	3.12	4.16	4.16	4.16	4.32	4.32	6.48	8.86	8.86	15.91	15.91	19.9	23.88	23.88	31.86
Aspiration	Natural	Natural	Natural	Natural	Natural	TC	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA	TA
Starting System (DC)	V 12	12	12	12	12	12	12	12	12	12	24	24	24	24	24	24	24	24
Governor	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Governing class as per ISO8528-5	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G3	G3	G3	G3	G3	G3	G3
Lub oil sump capacity - refill	L 5.5	5.5	7.5	7.5	9.5	9.5	9.5	14	14	18	21	21	38	38	42	42	53	130
Coolant capacity	L 10	10	12	12	24	24	24	49	54	54	43	43	123	123	133	144	166	180

ALTERNATOR (BRUSHLESS, SELF EXCITED, 4 POLE ALTERNATOR)

Make	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Leroy Somer	Leroy Somer
Model	SOL2F1	SOL2M1	S1L2J1	S1L2N1	S1L2N1	UCI 224F1	UCI 224G1	UCI 274C1	UCI 274V1 / E1	UCI 274F1	UCI 274H1	UCI 274J1 / K1	HCI 444E1	HCI 444F1	HCI 544D1	HCI 544F1	LSA49.1M75	LSA49.1L11
No. of bearings	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single	Single
Insulation	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Temp. rise at ambient 40°C	°C 125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
Wires	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Ingress protection	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
AVR model	AS540	AS540	AS540	AS540	AS540	AS440	AS440	AS440	AS440	AS440	AS440	AS440	AS440	AS440	AS440	AS440	D350	D350
Voltage regulation	% +/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%

Notes -

- DI - Auto start digital input is available as standard feature
- SD - Shut down
- SAE - Sound A - attenuated Enclosure
- ESP - Emergency Standby Power rating
- PRP - Prime Rated Power rating
- AVR - Automatic Voltage Regulator
- MCB - Miniature Circuit Breaker
- MCCB - Moulded Case Circuit Breaker

Definitions of Ratings as per ISO8528 -

- PRP - PRP ratings are applicable for supplying continuous electrical power at variable load in lieu of commercial purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload for 1 hour in 12 hours.
- ESP - ESP rating is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of utility power outage. This rating is applicable for 200 hours of operation per year with the maintenance intervals and procedures being carried out. The permissible average power output over 24 hours of operation shall not exceed 70% of the ESP rating. No overload is permitted above ESP rating.

- For site conditions other than the standard reference conditions of ISO8528-1 the derating is applicable. Please contact nearest KOEL office for the available power calculation at given site conditions.
- The alternator models and controller models are of standard product and may vary as per the agreed scope.

Kirloskar Green Generating Set Specifications

Control System Features and Safeties

Controller Module	DSE4522 A2	DSE7320MKII
Models	25W60, 39W60, 50W60, 80W60, 96W60, 127W60, 150W60, 202W60	248W60, 275W60, 352W60, 440W60, 550W60, 660W60, 825W60, 1111W60
	25WS60, 39W S60, 50W S60, 80W S60, 96W S60, 127WS60, 150W S60, 202W S60	248W S60, 275WS60, 352WS60, 440WS60, 550W S60, 660W S60, 825WS60, 1111WS60
On display screen		
Generating set Volts, Amps, Hz	✓	✓
Generating set kW, kVA, kVAr	✓	✓
Generating set per phase PF	✓	✓
generating set kWhr meter	✓	✓
Earth current (A)	No	✓
Grid (Mains) Voltage (L-L)	✓	✓
Battery Voltage (V)	✓	✓
Engine start attempts	No	✓
Engine Temperature (°C)	✓	✓
Engine speed (RPM)	✓	✓
Engine Run Hours (Hours & Min.)	✓	✓
Lube oil Pressure (kPa, PSI, bar)	✓	✓
Diesel fuel level (%)	✓	✓
Communication ports		
RS485	No	✓
RS232	No	✓

✓ - Available No – Not available ---- - Not applicable WR –Warning SD- Shutdown Ind – Indication DI – Digital Input

Customize Your Power Needs - Optional Accessories

Generating set

- External bulk fuel tank of 1000L, 5000L, 10000L, 15000L
- Fuel transfer pump
- Fuel priming manual pump
- Fire extinguisher

Engine

- Cold start kit
- Battery isolator switch
- 1000hrs service interval kit for select ratings
- Jacket water heater 220V - 240V AC
- Lube oil temperature sensor

Controller Module	DSE4522 A2				DSE7320MKII			
	WR	SD	Ind	DI	WR	SD	Ind	DI
Low oil pressure	No	✓	✓	----	✓	✓	✓	----
High coolant temperature	✓	✓	✓	----	✓	✓	✓	----
Low fuel level	✓	✓	✓	----	✓	No	✓	----
Low coolant level	No	✓	✓	----	No	✓	✓	----
Under / over speed	✓	✓	✓	----	✓	✓	✓	----
Low / high battery voltage	✓	No	✓	----	✓	No	✓	----
Low charge alternator	✓	No	✓	----	✓	No	✓	----
Emergency stop	No	✓	✓	----	No	✓	✓	----
Fail to start/ stop warning	✓	No	✓	----	✓	No	✓	----
Auto remote start/stop DI	----	----	----	✓	----	----	----	✓
Under / over voltage	✓	✓	✓	----	✓	✓	✓	----
Under / over frequency	✓	✓	✓	----	✓	✓	✓	----
Over kW / Overcurrent	No	✓	✓	----	No	✓	✓	----
Low load	No	No	No	----	✓	✓	✓	----
Incorrect phase sequence	No	No	No	No	No	✓	✓	----
Reverse power	No	No	No	No	No	✓	✓	----
Short circuit	No	No	No	No	No	✓	✓	----
Earth fault	No	No	No	No	No	✓	✓	----

✓ - Available No – Not available ---- - Not applicable WR –Warning SD- Shutdown Ind – Indication DI – Digital Input

Alternator

- ÿ Alternator space heater
- ÿ Permanent magnet exciter (PMG) (for select ratings)
- ÿ Alternator inlet louver filters
- ÿ Droop current transformer (for select ratings)

Controls

- ÿ Static battery charger 12V 5A / 24V 10A
- ÿ ATS panel
- ÿ Dummy load bank
- ÿ Remote monitoring unit
- ÿ Synchronization panel for higher kVA solutions

KIRLOSKAR REMOTE MONITORING SYSTEM

GET THE WINNING EDGE

CRITICAL PARAMETERS MONITORED

GENSET RUN HOURS, FUEL LEVEL, ENGINE OIL PRESSURE,, ENGINE TEMPERATURE, ENGINE SPEED (RPM), V/I/KW, BATTERY MONITORING, PF & FREQUENCY, ROUTINE MAINTENANCE INDICATOR



ENGINE SPEED



HIGH ENGINE TEMPERATURE



FUEL THEFT



HIGH BATTERY VOLTAGE



LOW LUBE OIL PRESSURE



LOW FUEL LEVEL



MAINS ON/OFF



CRITICAL ALARM

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*Picture for illustration purposes only

SPECIAL FEATURES

- * 24/7 Service Support
- * Prompt and professional Service Support
- * Very Low Noise & Vibration
- * More than 12 Safety Shut-downs
- * Highly Fuel Efficiency
- * 1 or 2 Year Warranty
- * Remote monitoring services (Optional)
- * ISO 3046 Class A1 & ISO 8528 G2 Governing



CONTACT US FOR A FREE SITE ASSESSMENT AND DETAILED QUOTATION...

Email: kirloskar@carcity.com.fj

Facebook: www.facebook.com/kirloskarfj

Website: www.tappoo.com.fj/kirloskar



For more information, please contact:

Email: kirloskar@carcity.com.fj
Facebook: www.facebook.com/kirloskarfj
Website: www.tappoo.com.fj/kirloskar

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