



Enriching Lives

CarCity
A TAPPOO GROUP COMPANY

KIRLOSKAR

Global Power Solution Provider



50_{HZ}





Enriching Lives

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 **CarCity**, a **wholly owned subsidiary of the Tappoo Group**, have 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 Snieder 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.



Enriching Lives





Why Kirloskar?

Rich Heritage of
132+ years
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

**Reliable engines
for every need!**

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 Green Power Ideas 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



- | | |
|--|--|
| <p>1 Door for radiator access
Access to radiator for faster service.</p> <p>2 Silencer mounted inside canopy
Improved safety & reduced sound level</p> <p>3 Mesh on exhaust tail pipe
Prevents entry of pests / rodents</p> <p>4 Top lifting arrangement
Easy to lift by crane</p> <p>5 Emergency stop switch
Easily accessible on canopy for stopping</p> <p>6 Glass window on canopy
Easy to read generating set parameters & safe</p> | <p>7 Stainless steel door hinges
Heavy-duty, anti-corrosive & long lasting</p> <p>8 Fuel tank full with indicator lamp
Prevents fuel spillage / wastage & improves safety</p> <p>9 External fuel tank
filling access Ease of refueling</p> <p>10 Stainless steel door locks
High durability & improved security</p> <p>11 Coolant drain arrangement
Easy access for faster service</p> <p>12 Pockets for forklift Facilitates easy handling & installation</p> |
|--|--|



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



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



High efficiency LED lamp
Extra bright & low power consumption



SMF batteries

Kirloskar Green Generating Set Specifications

Control System Features And Safeties

Controller Module	DEEP SEA							
Models	17W50, 22W50, 33W50, 44W50, 69W50, 91W50, 110W50, 138W50, 176W50				220W50, 275W50, 352W50, 440W50, 550W50, 660W50, 825W50, 1111W50			
	17WS50, 22WS50, 33WS50, 44WS50, 69WS50, 91WS50, 110WS50, 138WS50, 176WS50				220WS50, 275WS50, 352WS50, 440WS50, 550WS50, 660WS50, 825WS50, 1111WS50			
On display screen								
Generating set Volts, Amps. Hz	✓				✓			
Generating set kW, kVA, kVA _r	✓				✓			
Generating set per phase PF	✓				✓			
generating set kWhr meter	✓				✓			
Earth current (A)	No				✓			
Grid (Mains) Voltage (L-L)	✓				✓			
Battery Voltage (V)	✓				✓			
Engine start attempts	✓				✓			
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				✓			
Protections	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

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

Alternator

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

Controls

- Static battery charger 12V 5A / 24V 10A
- ATS panel
- Dummy load bank
- Remote monitoring unit
- 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



TECHNICAL SPECIFICATIONS - 3 PHASE, 4 WIRE, 0.8 PF

GENERATING SETS

Model	50 Hz															
	Open	17WS50	22WS50	33WS50	44WS50	69WS50	91WS50	110WS50	138WS50	176WS50	220WS50	275WS50	352WS50	440WS50	550WS50	660WS50
Voltage	SAE	17WS50	22WS50	33WS50	44WS50	69WS50	91WS50	110WS50	138WS50	176WS50	220WS50	275WS50	352WS50	440WS50	550WS50	660WS50
	L-L	V	380	400	415	380	400	415	380	400	415	380	400	415	380	400
Standby Power Output	L-N	V	220	230	240	220	230	240	220	230	240	220	230	240	220	230
	ESP	kVA	22	33	44	69	91	110	138	176	220	275	352	440	550	660
Prime Power Output		kW	13.2	26.4	35.2	55	72.6	88	110	140.8	176	220	281.6	352	440	528
	PRP	kVA	15	30	40	62.5	82.5	100	125	160	200	250	320	400	500	600
Fuel consumption (at % of PRP)		kW	12	24	32	50	66	80	100	128	160	200	256	320	400	480
	50%	L/Hr	2.0	3.7	5.1	7.6	9.7	10.7	15.5	19.1	24	29.8	40.5	46.4	61.2	70.7
	75%	L/Hr	2.7	3.6	5.1	10.8	13.8	17.7	20.7	25.0	31.9	41.9	55.3	61.6	75.6	92.7
	100%	L/Hr	3.4	4.7	6.7	14.4	18.3	22.5	26.8	34.0	42.3	55.1	70.8	80.4	97	123.7
Fuel Tank Capacity	Open	L	65	80	95	150	150	225	225	280	310	310	530	530	860	900
	SAE	L	43	75	95	150	150	225	225	350	310	310	530	530	860	900
Sound Level at 7m	SAE	dB(A)	70	70	70	70	70	70	70	70	70	70	70	70	75	80
	Open	cm	141 x 104 x 133	141 x 104 x 133	150 x 109 x 134	175 x 109 x 136	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	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
Dimensions (LxWxH) (as per GA drawing)	SAE	cm	198 x 97 x 123	198 x 97 x 123	218 x 101 x 145	256 x 111 x 146	297 x 116 x 166	327 x 116 x 193	327 x 116 x 193	372 x 116 x 211	437 x 162 x 198	436 x 167 x 223	498 x 211 x 228	498 x 211 x 228	525 x 212 x 257	566 x 211 x 257
	Open	kg	650	700	790	840	1100	1200	1450	1910	2320	2320	4250	4550	4750	5200
Dry weight (net) approx.	SAE	kg	920	970	1100	1310	1630	1950	2120	2720	3440	3670	6000	6300	7100	7830

ENGINE (LIQUID COOLED, 4 STROKE, DIESEL ENGINE)

Make	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar	Kifoskar
Model	2F1040	2F1040	3R1040	3R1040A	3R1040A	4R1040TC	4R1040TC	4K1080TA	4K1080TA	6K1080TA	6SL1500TA	6SL8800TA	6SL8800TA	6SL8800TA	6SL8800TA	6SL8800TA
Engine output	PRP	hp	27	42	56	83	105	156	156	200	248	310	400	490	608	750
Cyls & configuration	2 - In-line	2 - In-line	3 - In-line	3 - In-line	3 - 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
Bore x Stroke	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
Compression ratio	18:1	18:1	18:1	18:1	18:1	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
Displacement	L	2.08	2.08	3.12	3.12	4.16	4.16	4.32	4.32	6.48	8.86	8.86	15.91	15.91	19.9	23.88
Aspiration	Natural	Natural	Natural	Natural	Natural	TC	TC	TA	TA	TA	TA	TA	TA	TA	TA	TA
Starting System	12V	12V	12V	12V	12V	12V	12V	12V	12V	12V	24V	24V	24V	24V	24V	24V
Governor	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Governing class as per ISO8526-5	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
Lub oil pump capacity - refill	L	5.5	5.5	7.5	7.5	9.5	9.5	14	14	18	21	21	38	38	42	53
Coolant capacity	L	10	10	12	12	24	24	49	49	54	43	43	123	123	133	144

ALTERNATOR (BRUSHLESS, SELF EXCITED, 4 POLE ALTERNATOR)

Make	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford	Stamford
Model	SOL2F1	SOL2F1	SOL2M1	SOL2M1	SOL2M1	UCI 224F1	UCI 224G1	UCI 274C1	UCI 274V1 / E1	UCI 274F1	UCI 274H1	UCI 274J1 / K1	HCI 444E1	HCI 444F1	HCI 544D1	HCI 544F1
No. of bearings	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
Temp. rise at ambient +40°C	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
Ingress protection	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
AVR model	AS540	AS540	AS540	AS540	AS540	AS540	AS540	AS440	AS440	AS440	AS440	AS440	AS440	AS440	AS440	AS440
Voltage regulation	%	+/-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 - Shutdown
- CT - Current Transformer
- SAE - Sound Attenuated Enclosure
- ESP - Emergency Standby Power rating
- PRP - Prime Rated Power rating
- LI - Line to Line
- LN - Phase to Neutral
- TC - Turbocharged
- TA: Turbocharged Aftercooled
- AVR: Automatic Voltage Regulator
- MCCB: Miniature Circuit Breaker
- MCCB: Moulded Case Circuit Breaker
- The declared fuel consumption is calculated values with 0.845 specific gravity of diesel as per BS2669 class A2 and confirms to ISO3046 and has production tolerance of +5%.
- The declared weight and dimensions are approximate and for transportation purpose. Actual weight and dimensions are may vary as per the agreed scope. Mentioned height is without tail pipe
- For site conditions other than the standard reference conditions of ISO8526-1 the derating is applicable.
- Please contact nearest KQEL 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.

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 defines 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 20hours 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.

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...

Sibil Das P

Sales & Service Engineer

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62.5KVA installed at On The Go Mobil Service Station, Sabeto, Nadi

For more information, Please contact:

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