

METCL IP40S3 Generator Set
Prime 32kW (40kVA) 50Hz 3-P

Powered by **ISUZU**

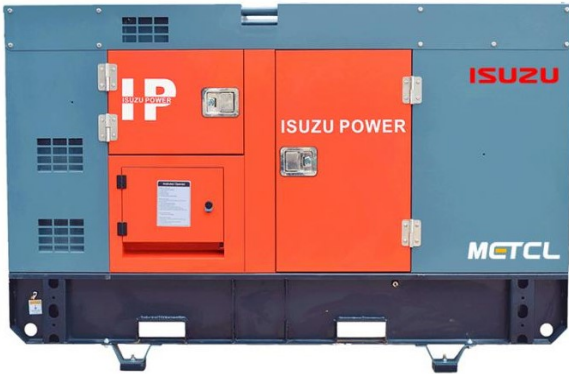


Image shown may not reflect actual configuration.

METCL GENSET DECIBELLES

Revolving field, self-ventilated weatherproof Normal conversation allows lower operating noise levels than competitive designs. METCL Genset good for home, construction sites, residential, hospital, etc.

- 90 db(A)**--Subway / Truck Traffic
- 80 db(A)**--Average city traffic
- ➔ **METCL Genset at 7m**
- 70 db(A)**--Inside Car at 60 mph
- 60 db(A)**--Air conditioner at 6m
- 50 db(A)**-- Conversation

72 db(A)

Specification of IP40S3 Generator

Frequency	Voltage	Prime kW (kVA)	Standby kW (kVA)	Speed rpm	Current Amps
50 Hz	380/220V	32 (40)	35.2 (44)	1500	60.7
	400/230V	32 (40)	35.2 (44)	1500	57.6
	415/240V	32 (40)	35.2 (44)	1500	55.6

Fuel Consumption	Prime kW (kVA)			
	32 (40)			
Rating	1/4	1/2	3/4	Full
US gph	0.65	1.32	1.97	2.61
L/hr	2.48	4.97	7.46	9.9

Fuel Tank	29.06 Gallons (110 Litres)
Continuous Running	8-12 Hrs
Fuel Tank Type	Integrated base

ENGINE PERFORMANCE

Engine Manufacturer	ISUZU
Engine Model	JE493ZLDB-02
Configuration	4 Cycle; In-line; 4 Cylinder Diesel
Aspiration	Inter-cooling Turbocharger
Engine Standby Power	42 kW (57.1HP)
Engine Rated Power	38 kW (51.6HP)
Bore × Stroke, mm	93 × 102
Rated Speed, rpm	1500
Compression ratio	18.2:1
Displacement L	2.771
Fuel Pump System	Direct Injection
Mechanical Governor regulation %	≤5%
Electric Governor regulation %	≤1%
Starting voltage	12 Volts DC
Engine Idling Speed- RPM	850
Crankshaft rotating direction	Clockwise
Lub oil sump capacity- Litre	5.6
Lub oil grade	≥ API CF-4
Lub oil pressure - MPa	0.1-0.5
Exhaust temperature--°C	< 500
Lub oil temperature--°C	< 100
Cooling water temperature -°C	85±10
DC Alternator	14V/50A
Starting Motor	12V/2.8kW

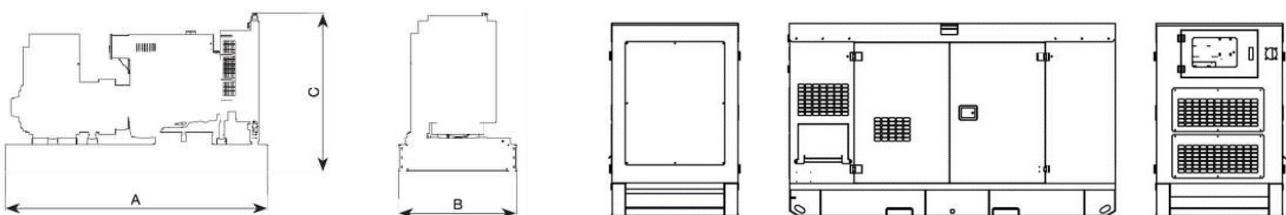
AC ALTERNATOR

Alternator Manufacturer	MECC ALTE	
Alternator Model	ECP30 2L4C	
Winding Pitch	2/3	
Excitation	Static regulated, brushless, self-excited	
Number of bearings	Single bearing, close coupled	
Insulation Class	Class H	
Protection Class	IP23	
Temperature rise °C	125/40	
Power Rating		
	KVA	40
	KW	32
Maximum Overspeed	2250	
Rated Power Factor	0.8	
Voltage regulator	DSR	
Pole number	4	
Phase number	3	
Number of wires	12	
Voltage regulation	Less than $\pm 1.0\%$	
Wave form deviation	10	
	Telephone Influence Factor (TIF) %	Less than 2%
	Harmonic Distortion (THD) %	Less than 2.5-2.9%

WEIGHT	Open	Enclosed
Unit dry weight kgs	700	910
Unit wet weight kgs	840	1050

DIMENSIONS	Length	Width	Height
Standard open set dimensions	1850	800	1160
Enclosed set standard dimensions	2250	1050	1250

GENSET OUTLINE



Rating Definitions and Conditions

Emergency Standby Power (ESP)- Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528.

Prime Power (PRP)- Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation on the annual hours of operating and the generator can supply 10% overload power.

Designed to Meet Specifications: ISO 8528, EN12601, EN 60204-1, ISO 3046, IEC 60034.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

Fuel rates are based on fuel oil of 35 API {16(60F)} gravity having an LHV of 42 780 kJ/kg (18,390 Btu/Ib) when use at 29 (85F) and weighing 838.9 g/liter (7.001 Ibs/U.S.gal)

Additional ratings may be available for specific customer requirements, contact your METCL representative for details.

Formulas for calculating fuel load currents.

Three phase output

$$\frac{\text{kW} \times 1000}{\text{Voltage} \times 1.73 \times 0.8}$$

Single phase output

$$\frac{\text{kW} \times \text{SinglePhaseFactor} \times 1000}{\text{Voltage}}$$

See your distributor for more information.

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