

Prime Ratings Range	
	GGP20EKL
	50Hz
kVA	20



### The GGP-Escorts Kubota Advantage

- One-stop solution for the generating system and accessories
- Manufactured in India with global expertise
- Compact design with ease of maintenance
- Max winding provides excellent motor starting capability
- Flexible & creative customized solutions to meet customer needs
- Fast response time
- Two-years or 5000 hours as per standard warranty terms from date of initial startup

### Special Features

Natural aspirated industrial diesel engine with superior efficiency and operating economy

- Integral vibration isolation eliminates the need for under-unit vibration spring isolators
- Advanced Digital Controller (ADC) with 3 auto crank cycles and inbuilt AMF logic
- Alternator features:
  - Alternator meets Indian and international standards
  - Self-ventilated and drip proof of IP23 construction
  - Superior voltage waveform by 2/3 pitch wound stator
  - Sustained short circuit current of up to 300% of rated current
  - Silencer located inside canopy

### Standard Features

- Engine mounted battery charging alternator
- Single - bearing alternator with insulation Class H
- Unit mounted radiator with 50° C ambient temperature
- Base frame mounted fuel tank with minimum 8 hrs running capacity
- Dry type air filter with restriction indicator
- DG circuit breaker
- Electric start with battery
- Conveniently located fuel level indicator
- Exhaust tail pipe as standard scope of supply
- Weather proof enclosures to withstand harsh climate
- Ease of accessibility for all routine service points
- Riser blocks for lifting and handling

### Conformance Standards

- ISO 9001-2015
- BS 5514
- ISO 14001

### Generator Set Ratings

Genset	Engine	Alternator	Voltage	Phase	Hz	Prime Rating		Amps
						kWe	kVA	
GGP20EKL	G20-IV	Stamford/Meccalte	415	3	50	16	20	28
GGP20EKL	G20-IV	Stamford/Meccalte	230	1	50	16	20	87

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1 and BS 5514. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions.

## Engine Specifications

Specifications		20 KVA
Engine model		G20-IV
Engine aspiration		Natural aspiration
No. of cylinders & arrangement		2, Inline
Displacement, L (cc)		2340
Bore and stroke, mm		95x110
Compression ratio		17.5:1
Governor: type, Class		Mechanical, Class A1
Frequency regulation, steady state		ISO 8528 G2
Air cleaner type, Qty		Dry, 1
Unit-mounted radiator ambient temperature °C (°F)		50 (122)
Max. power kWm (BHP) @ rated speed (rpm)		18 (24.2) @ 1500
Diesel Fuel Consumption		
100% Load (Lph)		3.45
75% Load (Lph)		4.6
Lube Oil Consumption		
100% load		0.1 % of SFC
Fuel System		
Fuel priming		Manual
Fuel filter : Type, Qty		Combo fuel filter, 1
Recommended fuel		HSD-ASTM D2
Fuel tank capacity, L		95
Fuel filter change period		Initial - 100 hrs / 3 months, Subsequent 500 hrs / 12 months whichever is earlier
Lubrication System		
System type		Forced lubrication
Lube oil type		15W40
Oil pan capacity with filter, L		6.5
Oil filter: Quantity, Type		2, spin on & by-pass
Oil and oil filter change period		Initial - 100 hrs / 3 months, Subsequent 500 hrs / 12 months whichever is earlier
Exhaust System		
Max. allowable back pressure, KPa (in.Hg)		4 (1.18)
Exhaust outlet size at engine hookup, mm (in)		50 (1.97)
Silencer Type, Quantity		Residential, 1
Exh. temperature at rated kW, dry exhaust, °C (°F)		550 (1022)
Cooling System		
Ambient temperature, °C (°F)		50 (122)
Coolant capacity including engine, L (gal)		6.9 (1.82)
Water pump type		Impeller
Fan diameter, including blades, mm (in.)		406.5 (16)
Engine Electrical System		
Starter Motor rated voltage VDC		12 V
Battery charging alternator		12 V , 35 Amp
Ground (negative/positive)		Negative
Battery type-		Lead acid
Amp/hour		80
Quantity		1
Battery voltage, VDC		12

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## Alternator Specifications

Specifications	20 kVA
Type	4 Pole
Exciter type	Brushless
Voltage regulator	AVR
Insulation - Material - Temperature rise, Prime	Class H 125° C
Bearing: Quantity, Type	1, Sealed
Coupling	Close coupled
Voltage regulation	+/-1%
Excitation	Self-excitation
Frequency, Fixed, Hz	50
Full load current - 3 phase - 1 phase	28 87
Prime at 125° C, kVA	20

## Advanced Digital Controller (ADC3003)

### Standard Features

- Master switch: Control On/Off
- Event Log
- Remote two-wire start/stop capability
- One-source responsibility for generating system & accessories
- Automatic start with programmed cranking cycle
- Field software upgrade possibility
- Operating temperature: -20° C to 70° C (-4° F to 158° F)
- Storage temperature: -60° C to 70° C (-76° F to 158° F)
- Humidity: 0-95% condensing
- Control Panel
  - Alternator to control panel connection with copper cable only
  - MCCB/MCB details : with short circuit and overload protection
  - Inbuilt AMF controller

Up to 200 meter cable length	20 kVA
Output copper cable size (Sq. mm) : 3 Ph. (1 run)	7.0
Output copper cable size (Sq. mm) : 1 Ph. (1 run)	21



### Optional Features

- Microprocessor based AMF change over panel
- Remote monitoring system

## Controller Information

LCD Display	LCD Display Faults	Display Warnings	Optional Accessories	Power Requirements
Runtime hours	High engine temperature	Low battery voltage	Battery charger 12 V	8 to 35 V DC with fuse protection
Engine speed	Low oil pressure	High battery voltage	Earth leakage protection	85 mA @ 12 VDC
Power factor KVA	Over speed / under speed	Low fuel level	VAF meter (multifunction)	96 mA @ 24 VDC
Current	Over and under voltage	Maintenance alarm	kWh meter	
Voltage	Over and under frequency		Remote monitoring system	
Frequency	E-stop			
Engine temperature	Auxiliary fault			
Engine oil pressure	Low fuel level			
Battery voltage	Over load current			
Kilowatt & kVA	Phase reversal - for 3 phase			
Fuel level (in %age)				

## Regulatory Compliance

Specifications	20 kVA
As per ISO 8178-5 mode cycle (Engine emission)	CPCB-IV compliant
Noise level measured at 1 meter distance	< 75 dB (A)

## Dimensions and weight

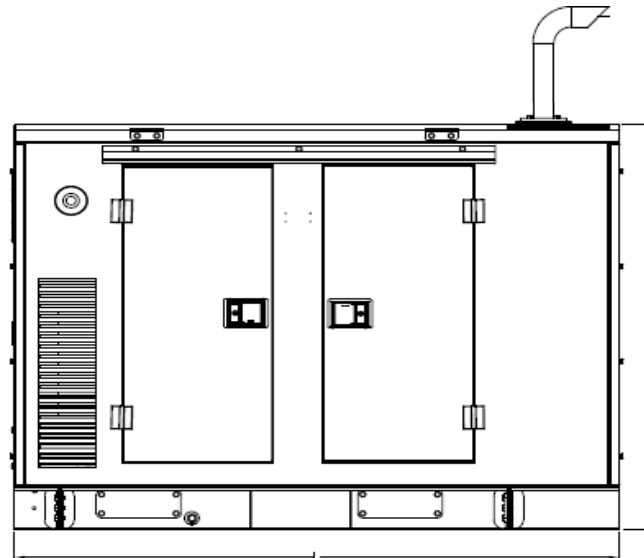
Specifications	20 KVA
Overall Size, L x W x H (mm)	1950x1000x1300
Weight, dry, max (kg)	800

NOTE : Drawing provided is for reference only and should not be used for planning installation. Please contact the Company for latest updated details.

\* All the data is as per respective manufacturers' specification. Please refer O & M manual for maintenance and preservation guidelines.

\* Fuel consumption data is based on HS Diesel having specific gravity of 0.85 and conforming to IS:1460 Standard. Fuel consumption tolerance is +5%.

GGP reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.



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