Generator Set UQ175-RG

Modasa, company leading in the manufacture of generator sets, presents its product range.

Genset Description:

Model name	UQ175-RG
Engine	PERKINS 1206J-E70TTAG3 (EPA Tier 4F)
Alternator	STAMFORD UCI 274G
Controller	Electronic
Phases	Three-phase/ Single-phase
Voltage Selector	208V-480V/ 240V

Note: reference image, may vary depending on accessories

Genset Rating (≤ 3300 famsl):

Engine	Alternator	Power		Volt.	Phase	Freq.	PF	Max. Current.
		Prime power	Stand By Power					
1206J-E70TTAG3	UCI 274G	174.1 kVA / 139.3 kW	193.4 kVA / 154.7 kW	208V	3ph	60Hz	0.8	537 A
1206J-E70TTAG3	UCI 274G	175 kVA / 140 kW	195 kVA / 156 kW	480V	3ph	60Hz	0.8	235 A
1206J-E70TTAG3	UCI 274G	123.4 kVA / 123.4 kW	134.5 kVA / 134.5 kW	240V	1ph	60Hz	1.0	560 A

Power definitions:

Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation.

Standby Power: Power available at variable load in the event of main power network failure. No overload is permitted.

The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528.

Codes & Standards:

The Generator set is designed and manufactured in a facility certified to ISO 9001 standards

Engine: ISO 3046, BS 5514, DIN 6271

Alternator: BS5000, VDE 0530, NEMA MG1-32, IEC34, CSAC22,2-100, ASI 1359

Genset: ISO 8528

UQ-Power
40500 IH 10 W
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Generator Set UQ175-RG

General Specifications:

Engine:

Model	1206J-E70TTAG3
Cylinders	6 in line
Governor type	ECM
Cycle	4 Stroke
Aspiration	Twin turbocharged aftercooled
Fuel	Diesel
Combustion system	Direct injection
Cooling system	Water cooled
Bore	105.0 mm
Stroke	135.0 mm

System Voltage	12V
Frequency	60Hz
Exhaust gas temperature	896 °F
Displacement	427.7 in3
Compression ratio	16.5:1
Lubricating system capacity	4.2 gallons
Coolant system capacity	8.5 gallons

Fuel consumption (gallon per hour)

Speed Engine	1800 RPM
Stand by Power	11.8 gallon per hour
Prime Power	10.8 gallon per hour
75% Prime Power	8.2 gallon per hour

Aftertreatment system

Aftertreatment type	DOC/DPF/SCR
Aftertreatment configuration	Engine mounted
DEF tank capacity	8.4 gallon

Alternator:

Model	UCI 274G
Insulation system	Class “H”
Excitation system	Separately excited (PMG)
A.V.R voltage regulation	MX341 ± 1.0%
Protection	IP 23

Number of poles	04
Power factor	0.8
Frequency	60Hz
Winding number	Winding 311
Telephone interference	< 2%

Features Genset:

◊ Enclosure heavy duty steel, Residential silencer included
◊ Enclosure center lifting point, External fuel filling
◊ Standard sound attenuation foam, Oil & Coolant Drain Ports
◊ Direct flexible engine-alternator coupling
◊ Structural steel frame with rubber anti-vibration dampers
◊ 210 Gallon double wall sub base fuel tank
◊ Capacity for 25 hours of autonomy at 75% load prime
◊ ABB UL 600A 3 pole manual circuit breaker
◊ Voltage Selector Krauss & Naimer position (Y-YY-Z)
◊ Terminal blocks and Cam-Lock distribution panels
◊ Convenience receptacles with individual breakers
- (2) 120V 20 Amp GFCI duplex outlets - (Nema 5-20R type)
- (3) 125/250V 50 Amp, 3 pole, twist lock (Non-Nema 6369)

◊ 12V battery, connection cables, battery holder
◊ 12V/3A battery charger in control panel
◊ Battery disconnect switch, electric fuel level meter
◊ Emergency stop switch located on outside of enclosure
◊ Manuals and electrical diagrams in digital

Distribution panel (side)

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Controller Data:

Equipped with the latest electronic digital control module DSE 7320MKII, it allows the start, control, protection and stop of the generator set in manual and automatic modes. Makes automatic transfer.

Measurements

◊ Current of the three phases L1, L2, L3
◊ Voltage of the three phases L - L and L - N
◊ Energy demand KWh, KVAh, KVArh
◊ Active Energy KVAr
◊ Power factor
◊ Frequency
◊ Hours of operation
◊ Memory of the last 250 events, description, date and time
◊ Active Power KW
◊ Reactive Power KVA
◊ Oil pressure
◊ Coolant temperature
◊ Generator phase sequence.
◊ Turning speed
◊ Battery voltage

Protections

◊ Alarm for maintenance activated configured
◊ High engine temperature
◊ Low/High frequency
◊ Low oil pressure
◊ Low/High battery voltage
◊ Low/High generator voltage
◊ Boot failure
◊ Stop failure
◊ Negative phase sequence fault
◊ Over current fault
◊ Overload failure
◊ Emergency stop

Enclosed Genset Dimensions:

Noise Level reference @ 23ft	Máximum	Ambient
	79 + 2 dBA	50 dBA

Lenght	149.6 in
Width	45.5 in
Height	89.1 in
Weight	7496 lbs (dry)
Fuel tank	210 gallons (double wall)
Ø Esc.	5 in

Note: reference values, request more detail with dimensional drawing

Application images:

Control panel and breaker (rear side)

Lockable external fuel fill

Lockable external DEF fill

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