

IB NO. 2022-27 - SUPPLY, DELIVERY AND INSTALLATION OF 1 UNIT GENERATOR SET

Generator

Rating:134 kVA (134 kW) - Minimum, single phase, 230 V, 60 Hz OR
200 kVA (160 kW) - Minimum, three phase BUT to be reconnected thru single phase at 134 kVA
(134 kW), 230 V, 60 Hz
Condition: Brand New and 2022 Manufactured only
Enclosure: Weather-and-soundproof
Fuel type: Diesel
Application: Fixed type and Standby
Accessories: Circuit breaker, Batteries, Battery charger
Standards: EN ISO12100:2010, EN12601:2010, EN60204-1:2006+A1:2009, GB/T2820.5-2009
Quality Assurance: Passed either European (CE) or American (UL) standards (Note: To provide a
valid certificate which can be validated its authenticity thru Internet)
Dimensions, LXWXH: 365 X 134 X 227 cm

Engine

Kind: Genuine or OEM (Note: To provide a valid certificate), OEM means Original Equipment
Manufacturer
Speed: at least 1800 RPM
Power standard: 187 kW (minimum)
Compression ratio: 17.3:1 (minimum)
Bore and stroke: 114 X 135 mm (minimum)
No. of cylinders: 6 (minimum)
Aspiration: Turbocharged and After cooled
Type of cooling: Water cooled
Fuel Consumption (Standby power, at 100%): 49 L/h (maximum)
Emission Certification: MEP STAGE I

Alternator

Kind: Genuine or OEM (Note: To provide a valid certificate)
Thermal Insulation Class: Class H (180 °C)
Temperature Rise: Class H (163/27 °C), 206 kVA (minimum)
Protection: IP23 or better
Stator Winding: Double Layer Concentric
Winding Pitch: Two Thirds
Winding Leads: 12
Standards: BS EN 60034 and the relevant section of other international standards such as
BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359
Quality Assurance: BS EN ISO 9001
Authenticity: To be verified in manufacturer (Alternator) website using the alternator
reference/serial number

Controller

Kind: Genuine or OEM (Note: To provide a valid certificate)
Type: Digital;
Fully configurable via the fascia or PC using USB communication; Efficient power save mode; 3
phase generator sensing; 3 phase mains (utility) sensing; Generator/load power monitoring
(kW, kV A, kV Ar, pf); Generator overload protection (kW); Generator/load current monitoring
and protection

Automatic-Transfer-Switch (ATS)

Ratings: 630 A, 230 V, 60 Hz, Single phase

Switch-gear type: Changeover

Quality Assurance: IEC60947-6-1, GB 14048-11

Features: CE certification (Stable and reliable quality); AC-33A design (Frequent changed in using 4 patents technology; One-piece copper platoon output structure; Permanent magnet motor drive technology; Zero overlap switching technology);

Multiple safety protection function (Mechanical and electric duplex interlocking design; Safety zero position design; Safety protection board accessory);

High connection/breaking capability (8Ie for rated current breaking capacity; 10Ie for rated current connection capability; 12kV rated impulse withstand voltage; 120 kA rated conditional short-circuit current)

Technical data: Agreed thermal current = 630A; Rated insulation voltage = 1000V; Rated impulse withstand voltage = 12kV; Rated voltage of the switch copper = AC 440V; Rated work current = 630A; Rated connection capability = 10Ie; Rated breaking capability = 8Ie; Rated conditional short-circuit current = 70kA; Rated short-time withstand current = 26kA; Transfer time I - II or II - I = 2.4S; Control voltage of the switch motor = AC 220V

Enclosure type: Wall-mounted, Outdoor

Main Circuit Breaker (MCB)

Ratings: 630 A, 230 V, 60 Hz, Single phase

Enclosure type: Wall-mounted, Outdoor