

BTA20PE

Diesel Genset Powered by



Generating Rates

Service		Prime	Standby
Power	kVA	17,5	19,3
Power	kW	14	15,44
Current	(cos Phi=0,8) A	25,2	27,792
Standart Voltage	V	400/231	400/231
Revolution Per Minute	r.p.m	1500	1500
Rated At Power Factor	Cos Phi	0,8	0,8

Standart Features

- 4 stroke 1500RPM, water cooled heavy duty diesel engine
- Dry type replacable air filter
- Heatresistant radiator for 50 °C
- Flexible oil pipes and oil draining valve
- Preheater 4 poles synchrontype, single bearing, brushless alternator
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram User manual and operating manual
- Protection system on manual run
- Lubrication oil and anti – freeze

Optional Equipments

- Soundproof canopy
- Automatic transfer switch
- Circuit Breaker
- Trailer
- External fuel tank
- Electronic governor
- Heating system for fuel tank
- Oil heater
- Fuel filling system (Automatic / Manual)
- Analog indicators
- 1 Phase 3 phase switch plugs
- Alarm system for fuel level
- Remote control and monitoring

Standby Power

Supplying of electrical power at variable load, in the event of normal utility power failure according to ISO85281. This rating is maximum power, no overload capability is available.

Prime Power

Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility powerfailure according to ISO85281. 10% over load capability is available.



Generating Rates

Service	Specifications
Manufacturer	PERKINS
Model	PERKINS404A-22G1
Cylinder Configuration	IN-LINE
No of Cylinders	4
Displacement	2,216
Bore	84
Stroke	100
Compression Ratio	23,3:1
Aspiration Type	Natural Aspiration
Governor Type	Mechanical
Cooling System	Water
Coolant Capacity	lt
Lubrication Oil Capacity	lt
Electrical System (DC)	12
Speed/ Frequency	rpm/Hz
Engine Gross Power	kW
Fuel Consumption %110 ESP	lt/h
Fuel Consumption %100 ESP	lt/h
Fuel Consumption %75 ESP	lt/h
Fuel Consumption %50 ESP	lt/h
Exhaust Outlet Temperature	°C
Exhaust Gas Flow	m³/min
Combustion Air Flow	m³/min
Cooling Air Flow	m³/min

Alternator Rates

Service	Specifications
No of Phases	3
Power Factor	0,8
No of Bearings	Single
No of Poles	4
No of Leads	6-12
Insulation Class	H
Degree of Protection	IP23
Excitation System	AVR

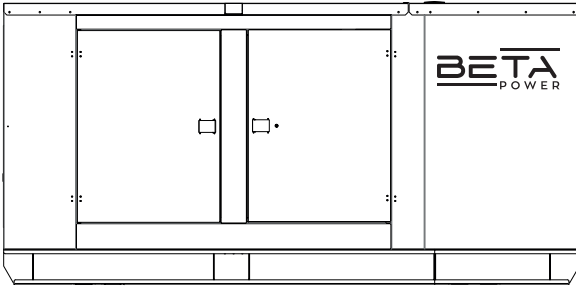
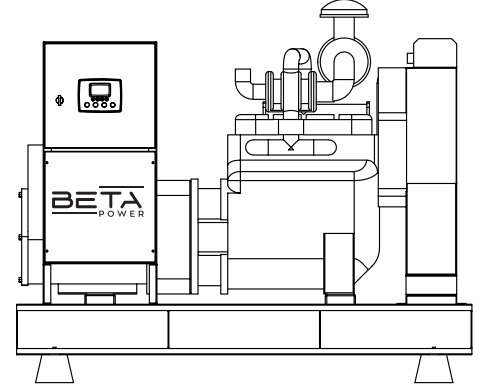
Control Panel Features

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs full snapshot
- Multiple Automatic test program
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable language
- Waveform display of V&I
- Harmonic analysis of V&I
- Synchroscope & check synch 16
- Amp MCB & GCB outputs 8 configurable digital outputs
- Outputs expandable to 40 4 configurable analog outputs
- Battery charge run enabled
- Weekly Operation Schedule
- Dual mutual standby with equal aging of gensets
- Manual speed fine adjust some ECU's
- Automatic fuel pumpcontrol
- Disable protection feature
- Excess protection power
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Waveform display of V&I
- Battery backup real time clock
- Idle speed control
- All parameters front panel editable
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Free configuration software
- Allow SMS controls
- Mobile genset support
- Automatic GSM geolocation
- GPS connectivity (USB & RS232)
- Modem & ethernet diagnostic
- Configurable through USB, RS485, Ethernet and GPRS
- Ready for central monitoring Ethernet and GPRS

Dimensions Without Canopy and Weight

Specifications

Width	mm	730
Length	mm	1389
Height	mm	1051
Weight	kg	503



Dimensions With Canopy and Weight

Specifications

Width	mm	730
Length	mm	1900
Height	mm	1200
Weight	kg	663

