



ENIQUEST

Australian Made Diesel Generators



APU20.0, 20kW 28V DC
AUXILIARY POWER UNIT

ISO 9001 CERTIFIED



Power You Can Trust

Meets all relevant Mil Standards | Extremely compact | Regulated DC voltage output | 24V electric start
Remarkable fuel economy | Easy maintenance | Totally enclosed water-cooled alternator
Able to be reconfigured for any servicing and exhaust orientation



Australian built with
YANMAR

APU20.0, 20kW 28V DC AUXILIARY POWER UNIT

APU20.0 combines a most compact, smooth running, water cooled Yanmar turbo charged industrial diesel engine with a unique Enquest developed and manufactured, totally enclosed water cooled 28V DC permanent magnet alternator. This compact light weight highly efficient Enquest alternator makes for a signification reduction in size and mass of the overall APU package.

Packaged in a robust frame with inbuilt vibration isolating mounts provides easy access for scheduled and non-scheduled servicing, makes the APU20.0 an ideal choice for military vehicles.

APU20.0

APU Package	Suit Wheeled or Tracked Vehicles
Voltage	28V DC
Output Power	20kW
Fuel	Diesel/JP8
Weight	345kg



Specifications

Model	APU20.0
Continuous Output	20kW
Output Voltage	28.0V DC
Voltage Ripple	< 3%
Voltage Stability	< 2%
Continuous Output Current	700mps
Engine	
Make/model	Yanmar 3TNM74F
Engine Type	Turbo Charged Indirect Injected — 4 Cycle
Engine Displacement	0.993Ltr
Number Of Cylinders	3
Operating Speed — Rpm	2600 to 3300rpm Variable for Voltage Regulation
Cooling Method	Water Cooled With Thermo Fan and Radiator
Fuel Type	Automotive Diesel and JP8
Fuel Consumption	6.5Liters/h at Full Load (Diesel)
Starting	24V Electric Start From Host Vehicle Battery
Lube Oil Type	SAE15W40 in Ambient -19°C to +44°C
Lube Oil Capacity	4.5 Litres
Maximum Angle Of Operation	25°
Crank Case Oil Evacuation	Hand Operated Oil Evacuation Pump
Service Intervals	250 Hours
Alternator	
Make/model	Enquest EQ20.0
Alternator Type	Permanent Magnet, Brushless and Bearing-less
Frame Type	Totally Enclosed
Windings	Dual 3 Phase Delta Connected
No. Of Poles	20
Rectifier Type	Full Wave Double Bridge for Each Winding
Voltage Control	Variable Engine Speed Control
Voltage Control Accuracy	+/- 2%
Alternator To Engine Coupling	Direct
Alternator Cooling	Engine Coolant From Engine Radiator
General	
Enclosure Type	Open Frame With Bunding
Noise	< 65DBA at 7 M
Fuel System	Self-bleeding
Fuel Supply	External From Host Vehicle System Via Lift Pump
Control Type	Enquest PM104+ With CAN-Bus Connectivity
Generator Mounting To Frame	High Performance Vibration Isolation Mounts
Electrical Output Termination	+ ve and -ve Busbar
Exhaust Discharge Direction	Configured to Suit Application
Cooling Air Intake Direction	Configured to Suit Application
Operating Temperature Range	-32°C to +49°C
Altitude	Up to 1200 M
Handling	4 x Top Mounted Lifting Eyes
Dimensions in MM	900L x 590W x 600H or to Suit Application
Weight	345kg with Fluids

Please note - Specifications are subject to change without notice.
- APU image shows configuration with exhaust direction from top and cooling air intake through top.