

PowerGen 15000/25000

DC Generator



Delta PowerGen 15kW/25kW is an outdoor -48V_{DC} standby generator designed to support telecommunications network power through extended utility power outages. Using 2.2 liters naturally aspirated 4-cylinder compact package engine, it's powerful but quiet. Delta PowerGen 15kW/25kW installation and deployment is quicker, easier and less costly than a traditional AC generator. Its availability can be assured through remote web browser access as well as M2M automation using SNMP alarms, polling and exercise.

Key Features

- Available in 15kW/25kW, 52V_{DC}, positive ground
- Easy installation and maintenance.
- DC output design reduces space requirements for generator and large batteries. Increases efficiency and reliability over an AC generator.
- Connects directly to DC plant with no need for a transfer switch or any AC power modifications.
- Diffused and diluted exhaust without any hot surfaces. Cabinet is safe to touch.
- Easy Integration with renewable energy systems.
- Automatic operation, triggered on loss of AC utility power digital input and/or and battery voltage thresholds.
- WEB browser interface for programming, control, monitoring, and firmware updates.
- SNMP Traps containing configurable alarm names and severities to respect Control Center standards. Generous alarm contacts are provided for traditional monitoring.
- Safe Voltages for Telco Network Power Technicians troubleshooting.
- Longer Service Interval over 500hrs
- High Power Quality. Output Ripple below 250mV. Psophometric noise below 2mV.

Applications

- Cell sites
- Land Mobile towers
- Data communications



PowerGen 15000/25000



KOAICC-03-ZL

GENERAL

PowerGen 15000

PowerGen 25000

Rated Power	15 kW @ 52 V _{DC}	24.3 kW @ 52 V _{DC}
Fuel consumption	0.89 gallons/hour (50% load) 1.19 gallons/hour (75% load) 1.55 gallons/hour (100% load)	1.32 gallons/hour (50% load) 1.84 gallons/hour (75% load) 2.44 gallons/hour (100% load)
Cooling Air Flow	1843 ft ³ / minute	2966 ft ³ / minute
Output Voltage	-52 V _{DC} (Positive Ground, Configurable -48 to -56 V _{DC})	
Voltage Regulation	± 1%	
Ripple Voltage	< 250 mVp-p	
User Interfaces	LCD with LED Indicators, Form C Alarm Dry Contacts WEB GUI and SNMP	
Features	Auto start based site battery voltage (-50V default) Local manual/Emergency mode Configurable cycling exercise self-test Alarm renaming with configurable severity Generator DC output energy meter Engine run hour meter Engine start counter.	

ENGINE

Make	Perkins 404D-22G (Naturally aspirated Diesel in-line 4 cyl.)	Perkins 404D-22TG (Turbocharged Diesel in-line 4 cyl.)
Power	21.3 kW @ fixed 1800 RPM	30 kW @ fixed 1800 RPM
Exhaust Flow	153 ft ³ / minute (4.34 m ³ / minute)	265 ft ³ / minute (7.5 m ³ / minute)
Oil Capacity	10.6 liters	10.6 liters
Coolant Capacity	7.0 liters	9.3 liters
Engine Battery	SuperCap	
Engine Battery Charger	Delta 48V _{DC} -to- 12V _{DC}	

ALTERNATOR

Make	Leroy Somer / LSA 40 M5 (4 poles, insulation class H)	
Voltage Regulator	R221	

MECHANICAL

Dimensions (W x H x D)	2100 x 1710 x 953mm (82.7 x 67.3 x 37.5in) (with standard 160 gallon tank)	
Weight	1050kg (2314lb)	1100kg (2425lb)

ENVIRONMENTAL

Operating Temperature	-20 to +45 °C (-4 to +113 °F); De-rate power 5% per 5°C above +45°C	-20 to +45 °C (-4 to +113 °F); De-rate power 5% per 5°C above +35°C
Altitude	De-rate power 3% per 1000 feet above 1000 feet	De-rate power 3% per 1000 feet above 3000 feet
Related Humidity	95%, non-condensing (Max.)	
Acoustic Noise	65dBA at 23 feet (7 meters)	

STANDARDS

Safety	UL LISTED including UL142 fuel tank	
EMC	FCC Part 15 Class A	

* All specifications are subject to change without prior notice.

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