

# PowerGen 10000

## DC Generator



Delta PowerGen 10 kW is an outdoor -48V<sub>DC</sub> standby generator designed to support telecommunications network power through extended utility power outages. Using a lightweight, air cooled engine, it's 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 10kW, 52VDC, positive ground.
- Easy installation and maintenance.
- Delivered to a roof by elevator and stairs. Low weight minimizes civil costs.
- DC output design reduces space requirements for generator and large batteries. Increases efficiency and reliability over an AC generator.
- 9-phase alternator and extensive LC filtering for clean output.
- 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.

### Applications

- Roof top base stations
- Cell sites
- Land Mobile towers
- Walk-In Cabinets
- Data communications
- CATV Cabinets
- Multi-day backup
- Minimize battery investment
- Eliminate civil costs for battery floor reinforcements



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GOAOGC-02-ZL

## GENERAL

|                               |  |
|-------------------------------|--|
| Rated Power                   | 10 kW @ 52 V <sub>DC</sub>   |
| Engine Type                   | Air Cooled<br>– Kohler CH740 series  |
| Fuel Consumption<br>100% load | LPG: 9.48 lbs/h<br>NG : 8.88 lbs/h   |
| Output Voltage                | -52 V <sub>DC</sub> (Positive Ground, Configurable -48 to -54 V <sub>DC</sub> )  |
| Voltage Regulation            | ± 1%   |
| Ripple Voltage                | 500 mVp-p  |
| User Interfaces               | LCD with LED Indicators,<br>Alarm Dry Contacts<br>WEB GUI and SNMP   |
| Function                      | Alarm renaming, configurable severity, cycling exercise self-test, auto start based on loss of AC or low battery voltage.<br>Local manual/Off mode.<br>Generator DC output energy meter, engine run hour meter, and engine start counters. |
| M2M and alarm Inter-face      | Alarm Dry Contacts, Radius,<br>SNMP Alarm and Status Traps, extensive polling.   |

## MECHANICAL

|                        |  |
|------------------------|--|
| Dimensions (W x H x D) | 1155 x 1155 x 770mm (45.5 x 45.5 x 30.3in) |
| Weight                 | 227kg (<500lb)                             |

## ENVIRONMENTAL

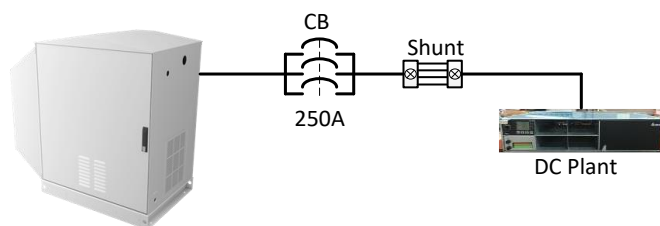
|                       |                                |
|-----------------------|--------------------------------|
| Operating Temperature | -30 to +50 °C (-34 to +122 °F) |
| Acoustic Noise        | ≤ 65dBA at 23 feet (7 meters)  |

## STANDARDS

|             |                                  |
|-------------|----------------------------------|
| Safety      | UL/cUL                           |
| EMC         | FCC Part 15 Class A and ICES-003 |
| Environment | RoHS compliant                   |

\* All specifications are subject to change without prior notice.

## System wiring



## Typical Installation

