

Dale Secure⁺ 1000 Super Silent, 3 Phase, 50Hz/60Hz Datasheet

Features:

- Fully bunded, CSC plated 40ft ISO high cube container
- Multifunction digital controller incorporating engine and alternator protections with LCD metering display
- Corner fixings to ISO1161 designed to provide a four point lift
- Walk round design and weather protected
- Single compartment design for engine driven radiators
- Removable acoustic chevron louvres with bird grilles and internal baffles
- 2 x single folio access doors on each side of the container to provide outstanding access for maintenance
- External lockable access door to generator control panel and circuit breaker mounted recessed on the outside of the container complete with stainless steel door hinges & locks, control panel viewing window with weather-proof seal. Access to DC isolator switch, engine static battery charge, alternator AVR and engine governor controller
- End mounted recessed external fuel fill point cabinet
- 50°C tropical radiator designed for cooling in high ambient temperatures or confined spaces
- Internally mounted & insulated box type exhaust silencer
- 24 hour capacity bunded fuel tank
- Container shot blasted and finish painted white RAL1013
- Dual frequency, switchable 50/60Hz

Not all features are fitted as standard

Dimensions and Weights

Length (L) mm	Width (W) mm	Height (H) mm	Dry Weight kg	Wet Weight kg
12154	2438	2896	21000	23000

Notes:

***Prime Power**

Continuous duty operation, under variable load - 10% overload permissible 1 hour/12 hours;

****Standby Power**

Standby duty, operation under variable load, without overload;

Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity. Power ratings and standard reference conditions in accordance with ISO8528 and ISO3046.



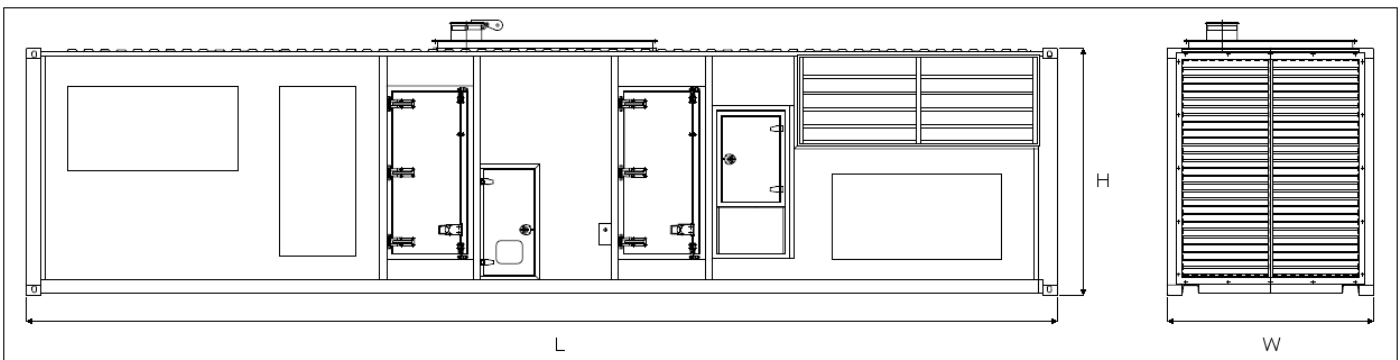
Output Ratings

Frequency	Prime Power*	Standby Power**
50Hz	911kVA/729kW	1016kVA/813kW
60Hz	1039kVA/832kW	1156kVA/925kW

General Specification

Engine Make & Model:	Cummins QST30-G3	
Alternator Make:	Mecc-Alte	
Alternator Model:	ECO43-2SN	
Optional Alternator:	Stamford HCI634H	
Control System:	Auto Start Plus / Synchronising	
Circuit Breaker Type:	3 Pole MCCB / 4 Pole ACB	
Circuit Breaker Rating: A	1600	
Frequency & Phase:	50Hz & 3PH	60Hz & 3PH
Engine Speed: RPM	1500	1800
Fuel Tank Capacity: L	5750	
External Noise Level: dBA at 1m	Super Silent - 73	

Noise levels are based on free field conditions in normal temperature and pressures, engine at 1500rpm and 75% load factor.



Engine Technical Data

Model:	QST30-G3	
Configuration:	V 12 cylinder	
Cycle:	4 Stroke	
Bore / Stroke: mm	140/165	
Aspiration:	Turbocharged and Aftercooled	
Cooling Method:	Water cooled	
Governing Type:	Electronic	
Governing Class:	ISO 8328 Part 1 Class G3	
Compression Ratio:	14:1	
Displacement: L	30.48	
Battery Charging Alternator: A	35	
Starting Voltage: V	24, negative ground	
Weight: kg	- Dry	2967
	- Wet	3062

Performance

Engine Speed: rpm	1500	1800
Gross Engine Power		
- Prime: kWm (BHP)	806 (1080)	910 (1220)
- Standby: kWm (BHP)	895 (1200)	1007 (1350)
BMEP		
- Prime: kPa	2117	1993
- Standby: kPa	2358	2206

Operational Data

Oil Capacity: L	154
Cooling System Capacity: L	199

Fuel System

Fuel System: Direct injection				
Fuel Filter Type: Triple element with water separator				
Recommended Fuel: Diesel Class A2				
Fuel Consumption: L/hr				
Prime	110% Load	100% Load	75% Load	50% Load
50Hz	204	184	139	94
60Hz	228	207	154	106

(Based on diesel fuel with a specific gravity of 0.85 and conforming to BS2869, Class A2)

Images shown may not reflect actual package supplied. Dale Power Solutions Ltd reserves the right to make changes in specification without notice or liability.

Control System

Auto Start Plus:

- Multi-function digital control system
- Automatic start on mains failure
- Custom LED annunciators, LCD display & user keys for man / machine interface
- Front panel configurable settings
- Scrolling multiple digital LCD screens displaying alarms, status & indications
- Advanced metering, alarms & protections
- Event logging of shutdown alarms
- Stop / Manual / Auto / Start / Exercise modes
- Emergency stop push button
- Battery charger

Synchronising:

Dale Synchronising Control Panel included all of the Auto Start Plus features, plus:

- Set to set synchronising
- Set to mains synchronising with integrated mains monitoring



Image shows control module only

Options

- 3 & 4 pole circuit breakers
- Double busbars for multi set installations
- Plug & socket cable connectors in lieu of copper busbars
- Dual frequency, switchable 50/60Hz
- Alternator extra winding protection
- Alternator anti-condensation heater
- Racor fuel water separator filters
- Fuel cooler
- Fuel auto fill kit
- Hydrostatic fuel gauge
- Automatic transfer switch
- Stainless steel door furniture
- Low level control panel viewing window for trailer mounted generators
- Alternative control modules