

Features

- Acoustic enclosures compliant with the Noise Directive of the EU 2000/14/EC
- Mechanical or electronic governors with CAN-bus communication
- Integral high capacity fuel tanks allow a minimum of 8 hours running time
- Bunded fuel tanks with leak protection in accordance with the DEFRA Pollution Prevention Guidelines PPG2
- Durable and efficient diesel engines giving fuel economy and low exhaust emissions
- Multi function digital generator controllers incorporating engine and alternator protections and digital metering. Simple to operate with advanced PCB layout for high reliability
- Standard product can be configured for multiple applications including standby to mains, prime power, parallel with other generating sets and the utility applications
- Product supported by Dale warranty



Product Range

Model		CNE 715	CNE 806	CNE 851	CNE 1040	CNE 1100
Prime Power	kVA (PRP)	651	729	800	935	1000
Prime Power	kW (PRP)	521	583	640	748	800
Emergency Standby Power	kVA (ESP)	714	806	850	1039	1100
Emergency Standby Power	kW (ESP)	571	645	680	831	880
Standby Amps @ 380V, 50Hz	A	1030	1163	1227	1500	1588

Specifications - General

Engine Manufacturer		Cummins	Cummins	Cummins	Cummins	Cummins
Engine Model		VTA 28 G5	QSK 23G2	QSK 23 G3	QST 30 G3	QST 30 G4
Gross Engine Power	kWm	560	TBA	701	806	880
Output @ Rated RMP	Hp	750	TBA	940	1080	1180
Aspiration Type*		Turbo, CAC	TAC	TAC	TAC	TAC
Engine Capacity	Litres	28	23	23	28	28
Cylinders		12V	6 in-line	6 in-line	12V	12V
Rated Engine Speed	RPM	1500	1500	1500	1500	1500
Governor		Electronic	Electronic	Electronic	Electronic	Electronic
Fuel Consumption (Ltrs/Hr)	Full Load	140	TBA	161	184	202
	75% Load	74.3	TBA	TBA	139	151
	50% Load	51.3	TBA	TBA	94	102

Specifications - Open

Weight (Net)	Kilo Grams	5050	5480	5480	6001	6535
Dimensions (L x W x H)	Millimeters	3800 x 1450 x 2050	4500 x 1490 x 2150	4500 x 1490 x 2150	4100 x 1620 x 2650	4500 x 1930 x 2450
Dimensions (with base tank)	Millimeters					
Fuel Capacity	Litres	600	TBA	TBA	TBA	TBA
Autonomy	Hours	8	8	8	8	8

Specifications - Containerised

Weight (Net)	Kilo Grams	6500	8500	8500	10200	10200
Dimensions (L x W x H)	Millimeters	6240 x 1650 x 2340	8100 x 1650 x 2400	8100 x 1650 x 240	10000 x 2300 x 2800	10000 x 2300 x 2800
Fuel Capacity	Litres	600	TBA	TBA	TBA	TBA
Autonomy	Hours	8	8	8	8	8
Noise Level	dBA	72 @ 6m	72 @ 6m	72 @ 6m	72 @ 6m	72 @ 6m

Prime: Continuous running at variable load for unlimited periods. A 10% overload is permissible for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO3046, BS 5514.

Standby: Continuous running at variable load for the duration of the emergency. No overload permitted on these ratings. In accordance with ISO 3046, BS 5514.

*CAC – Turbo charged and charge air cooled
TAC – Turbo charged, after cooled
IC – Turbo charge and intercooled

Standard Specifications

Engine	Cummins heavy duty industrial diesel engine 4 cycle, water cooled and turbo charged Mechanical engine governor (Electronic CNE90) Direct injection fuel system 12 Vdc starter and charge alternator Replaceable fuel filter, oil filter and dry element air filter Engine driven cooling radiator Lead acid starting batteries with rack and cables Flexible fuel connection hoses and manual sump oil drain valve Jacket water heater (optional) Operation manuals and circuit diagram documents	Dale 5210 Control System	Multi function digital control system The control system is designed to monitor the mains supply via the Dale Transfer Switch Automatic starting in the event of a mains failure Front panel programming of the module settings Remote communication via RS 232 or RS 485 "modbus" output Scrolling digital LCD display Event logging of shutdown alarms Stop / Reset / Auto / Manual / Test / Start
Alternator	Brushless single bearing, 4 pole Insulation class H Standard degree of protection IP21 Self exciting and self regulating Stator windings with 2/3 pitch for improved harmonics Impregnation with tropicalised epoxy varnish Solid state automatic voltage regulator	LCD Display Metering	Generator volts (Ph – Ph / Ph – N) Generator amps (L1, L2, L3) Generator frequency (Hz) Generator kVA Generator kW Generator power factor Engine oil pressure Engine temperature Engine speed Engine hours run Plant battery voltage
Baseplate	The complete generating set is mounted on a heavy duty fabricated steel base plate with engine and alternator mounting points Heavy duty lifting eyes are provided for easier installation of the generating set	Alarms	Under / Over generator voltage Under / Over generator frequency Over Current Low oil pressure High engine temperature Under / Over speed Fail to start Fail to stop Emergency stop Charge fail Low / High battery voltage Can data fail – on Canbus engines only Can ECU fail – on Canbus engines only
Exhaust	Loose industrial exhaust silencer		
Power outlet	3 Pole MCCB Mains powered battery charger		

Optional

Sound Attenuated Canopies	Weatherproof modular canopy assemblies Electrostatic polyester power paint system Engine exhaust system manufactured from aluminum plated steel Thermally insulated engine exhaust system Emergency stop push button on outside of the canopy Large doors giving access for maintenance Compliant with the European Union Noise Directive 2000/14/EC
Engine	Residential exhaust silencer Automatic fuel filling system from remote bulk tank
Alternator	Over sized alternator for motor starting and thyristor load applications
Control	Automatic transfer switches Earth fault protection Automatic synchronizing and load control



Dale Power Solutions plc reserves the right to make changes in specification without notice or liability. All information is subject to Dale Power Solutions own data & is considered accurate at time of publishing.

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