

Features

- Ratings available from 5 to 500kVA
- Output frequency available from 16.7Hz to 800Hz
- Output frequency in either fixed or adjustable format
- Output voltage available from 10 to 750VAC
- Output voltage in either fixed or adjustable format



Standard Specifications

AC Input

Supply phase & voltage:	Single or three phase supply 110-660VAC
Supply voltage variation:	+/-10%
Supply frequency:	50Hz or 60Hz
Supply frequency variation:	+/-5%

Frequency Converter Output

Rated output power range:	5-500kVA
Output voltage:	10-750VAC fixed or adjustable output
Static voltage regulation:	+/- 1% for 0—100% load variation
Dynamic voltage regulation:	+/-4% for 100% load step for 50/60Hz output
Dynamic recovery time:	25mS recovery to within static limits
Unbalanced 3ph load:	+/-2% voltage variation for 100% unbalanced load
Adjustable output frequency:	15 to 800Hz
Fixed output frequencies:	16.66, 40, 50, 60, 400 or 800Hz
Output frequency accuracy:	+/-0.5%
Overload capability:	150% for 1 minute, 125% for 10 minutes, 110% for 20 minutes
Short circuit capability:	2 x rated output current for 5 seconds for 1ph output to EN 50091 pt 1 2—4 x rated output current for 5 seconds for 3ph output to EN50091 pt 1

Dale Power Solutions Ltd

Salter Road, Eastfield Industrial Estate, Scarborough, North Yorkshire, YO11 3DU, United Kingdom

Telephone: +44 (0) 1723 583511 Email: info@dalepowersolutions.com Website: www.dalepowersolutions.com

Registration No 941798 England

Frequency Converter Output (ctd)

Waveform:	Sinusoidal
Distortion	<5% with linear load
Crest Factor (Load Current):	<2.3 at 100% rated load
Load power factor range:	0 lag to 0 lead, output power de-rated if power factor deviates from 0.8 lag

Mechanical

Protection rating:	IP20 according to EN 60529
Enclosure finish:	RAL7035
Cooling:	Natural or power module assisted cooling dependant on rating
Audible noise level:	50—70dBA dependant on rating and load

General

Operating temperature range:	0°C to +40°C
Storage temperature range:	-20°C to +70°C
Operating altitude:	0 to 1000m
Operating humidity:	10% to 85% RH—non condensing
Safety:	BS EN 62040— 1-2
EMC:	BS EN 62040-2

Options

- TFT Touch screen display
- Event log
- Increased short circuit currents
- Improved output frequency accuracy
- IGBT based rectifier with sinusoidal low THD input current
- Additional analogue meeting
- Extra configurable remote alarm relay contacts
- Customer specific distribution isolators, circuit breakers or fuses
- Anti-condensation heaters
- Panel lighting
- Increased panel protection ratings up to a maximum of IP54
- Top or both cable entry
- Custom enclosure paint colours
- Larger cubicle sizes for more complex solutions
- Custom designed options for customer requirements
- Remote monitoring

Dale Power Solutions Ltd 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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