

Model Number
2050E12-7

DIGITAL POWER AMPLIFIER

Revision: NR
ECN#:

PERFORMANCE

Output Circuitry	Class D Switch Mode Power Amplifier
Output Voltage (continuous)	75 V _{RMS}
Output Voltage (peak)	106 V _{PEAK}
Output Current (continuous)	43 A _{RMS}
Output Current (peak)	120 A _{PEAK}
Heat Dissipation – Typical	300 W
Heat Dissipation – Maximum	600 W
Audible Noise Level 1m / 3ft	<55 dB (typical) / <60 dB (max)
Ambient Air Temperature	40 – 100 °F (4 – 38 °C)
Frequency Response	3.0 – 4,000 Hz ^[1] 2.0 – 6,000 Hz ^[2]
Voltage Gain – Maximum	45 dB
Input Impedance	10 kΩ
Input Voltage – Maximum	10 V _{PEAK}
Harmonic Distortion	< 3 %, 5 to 2,000 Hz
Front Panel Display	
Voltage – Peak	10 Segments + 3 digits
Current – RMS	10 Segments + 3 digits
Protections	
Self-Protection	Over Current, Over Temperature
External Interlocks	Fault Open, Closed, TTL

ELECTRICAL

Line Input Power	
Voltage	200 – 240 V _{AC} , single phase ^[3]
Frequency	50 Hz or 60 Hz
Power - Maximum	3500 VA ^[4]

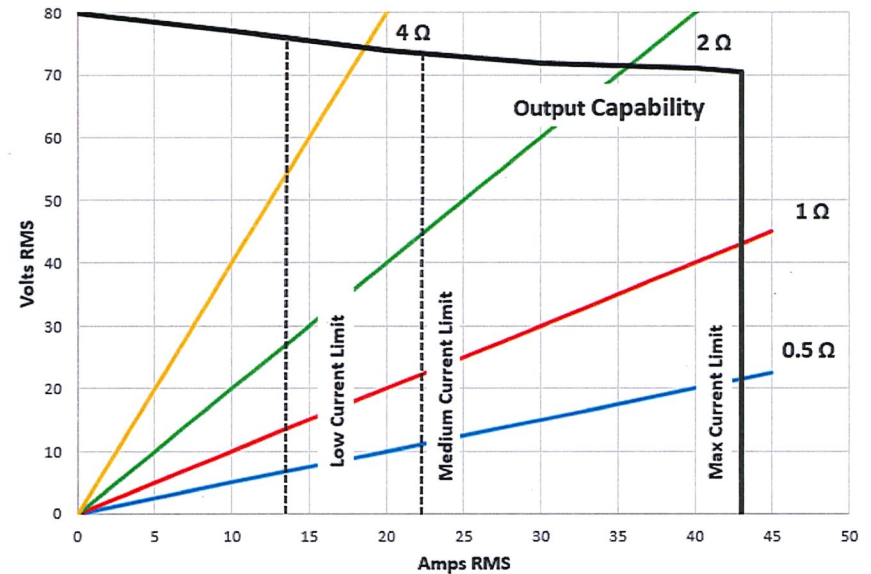
PHYSICAL

Size (Height x Width x Depth)	8.8 in x 19 in x 17 in ^[5] (224 mm x 483 mm x 432 mm)
Weight	115 lb (52 kg)
Input Connector	BNC Jack
Output Connectors	Screw Terminals
Interlock Connectors	Screw Terminals
Front Panel UI	
Indicator Lights	Fault, Ready, Interlock
Controls	Power, Gain, Current Limit

NOTES:

- [1] -3 dB point
- [2] -6 dB point
- [3] Integral power cable (bare wire termination)
- [4] Power level is not available from standard USA 115/120 V wall outlet
- [5] 19" rack mountable

PERFORMANCE GRAPH



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, specifications may change without notice.



Project Engineer: <i>new</i>	Product Manager: <i>MAP</i>	SAM Team Leader: <i>CAO</i>	Spec Number: PS-0163
Date: 09-02-21	Date: 09-01-21	Date: 9/16/21	Page 1 of 1

THE MODAL SHOP
AN AMPHENOL COMPANY

10310 Aerohub Boulevard
Cincinnati, OH 45215, USA

info@modalshop.com
+1 513.351.9919

+1 800.860.4867
Fax: +1 513.458.2172

SAM-F020 revB 05/17/18