DE3319-05
M SERIES AMPLIFIERS
AC Power Draw & Thermal Dissipation

Model 44M20

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
195	2.9	1.5	195	168	665

Running in 2 Ohm mode* (all channels driven)							
Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Current Draw (Amps)		Thermal Dissipation		
			120Vac	230Vac	Watts	kcal/hr	btu/hr
2	1/8, cf = 4.0 (12dB)	3000	33.5**	17.5	500	430	1706
4	1/4, cf = 2.8 (9dB)	3475	38.8**	20.3	475	408	1621
4	1/8, cf = 4.0 (12dB)	1780	19.7	10.3	280	241	955
8	1/4, cf = 2.8 (9dB)	1750	19.2	10.0	250	215	853
8	1/8, cf = 4.0 (12dB)	975	11.0	5.8	225	193	767

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated
- *The M20 does not have 4 & 8 Ohm Low Z modes
- **The EBP limiter should be set to 32A, but will not activate on any sensible program material

Model 44M10

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
195	2.9	1.5	195	168	665

Running (all channels driven)								
Load Mode	Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Input Current (Amps)		Thermal Dissipation		
				120Vac	230Vac	Watts	kcal/hr	btu/hr
2 Ohm	2	1/8, cf = 4.0 (12dB)	1600	19.2	10.0	350	301	1194
2 Ohm	4	1/4, cf = 2.8 (9dB)	1560	18.7	9.8	310	267	1058
2 Ohm	4	1/8, cf = 4.0 (12dB)	875	11.1	5.8	250	215	853
4 Ohm	4	1/4, cf = 2.8 (9dB)	2920	31.0	16.2	420	361	1433
4 Ohm	4	1/8, cf = 4.0 (12dB)	1550	19.2	10.0	300	258	1024
4 Ohm	8	1/4, cf = 2.8 (9dB)	1535	18.4	9.6	285	245	973
4 Ohm	8	1/8, cf = 4.0 (12dB)	864	10.9	5.7	239	206	816
8 Ohm	8	1/4, cf = 2.8 (9dB)	1800	21.1	11.0	300	258	1024
8 Ohm	8	1/8, cf = 4.0 (12dB)	975	11.5	6.0	225	193	768

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated

Model 44M06

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
132	2.0	1.0	132	114	450

Running (all channels driven)								
Load Mode	Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Input Current (Amps)		Thermal Dissipation		
				120Vac	230Vac	Watts	kcal/hr	btu/hr
2 Ohm	2	1/8, cf = 4.0 (12dB)	1022	12.8	6.7	272	234	928
2 Ohm	4	1/4, cf = 2.8 (9dB)	991	12.5	6.5	241	207	822
2 Ohm	4	1/8, cf = 4.0 (12dB)	563	7.9	4.1	188	162	642
4 Ohm	4	1/4, cf = 2.8 (9dB)	1780	21.1	11.0	280	241	955
4 Ohm	4	1/8, cf = 4.0 (12dB)	970	11.5	6.0	220	189	751
4 Ohm	8	1/4, cf = 2.8 (9dB)	963	11.5	6.0	213	183	727
4 Ohm	8	1/8, cf = 4.0 (12dB)	552	7.3	3.8	177	152	604
8 Ohm	8	1/4, cf = 2.8 (9dB)	1695	19.2	10.0	195	168	665
8 Ohm	8	1/8, cf = 4.0 (12dB)	940	11.5	6.0	190	163	648

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated

Model 48M20

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
204	3	1.55	204	175	696

Running (all channels driven)								
Load Mode	Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Input Current (Amps)		Thermal Dissipation		
				120Vac	230Vac	Watts	kcal/hr	btu/hr
2 Ohm	2	1/8, cf = 4.0 (12dB)	1687	20.2	10.5	437	376	1492
2 Ohm	4	1/4, cf = 2.8 (9dB)	1636	19.7	10.3	386	332	1316
2 Ohm	4	1/8, cf = 4.0 (12dB)	922	11.7	6.1	297	256	1015
4 Ohm	4	1/8, cf = 4.0 (12dB)	3009	33.6**	17.6	509	438	1737
4 Ohm	8	1/4, cf = 2.8 (9dB)	2974	31.6	16.5	474	408	1617
4 Ohm	8	1/8, cf = 4.0 (12dB)	1604	19.2	10.0	354	304	1208
8 Ohm	8	1/4, cf = 2.8 (9dB)	3330	37.3**	19.5	330	284	1126
8 Ohm	8	1/8, cf = 4.0 (12dB)	1820	21.5	11.2	320	275	1092

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated
- **The EBP limiter should be set to 32A, but will not activate on any sensible program material

Model 48M10

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
204	3	1.55	204	175	696

Running (all channels driven)								
Load Mode	Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Input Current (Amps)		Thermal Dissipation		
				120Vac	230Vac	Watts	kcal/hr	btu/hr
2 Ohm	2	1/8, cf = 4.0 (12dB)	1687	20.2	10.5	437	376	1492
2 Ohm	4	1/4, cf = 2.8 (9dB)	1636	19.7	10.3	386	332	1316
2 Ohm	4	1/8, cf = 4.0 (12dB)	922	11.7	6.1	297	256	1015
4 Ohm	4	1/4, cf = 2.8 (9dB)	2951	31.4	16.4	451	388	1538
4 Ohm	4	1/8, cf = 4.0 (12dB)	1601	19.8	10.3	351	302	1197
4 Ohm	8	1/4, cf = 2.8 (9dB)	1589	19.0	9.9	339	291	1157
4 Ohm	8	1/8, cf = 4.0 (12dB)	904	11.4	6.0	279	240	952
8 Ohm	8	1/4, cf = 2.8 (9dB)	2809	32.9	17.2	309	266	1054
8 Ohm	8	1/8, cf = 4.0 (12dB)	1551	18.3	9.5	301	259	1026

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated

Model 48M06

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
204	3	1.55	204	175	696

Running (all channels driven)								
Load Mode	Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Input Current (Amps)		Thermal Dissipation		
				120Vac	230Vac	Watts	kcal/hr	btu/hr
2 Ohm	2	1/8, cf = 4.0 (12dB)	1094	13.7	7.2	344	296	1174
2 Ohm	4	1/4, cf = 2.8 (9dB)	1063	13.4	7.0	313	269	1068
2 Ohm	4	1/8, cf = 4.0 (12dB)	635	8.9	4.6	260	224	887
4 Ohm	4	1/4, cf = 2.8 (9dB)	1852	21.9	11.4	352	303	1201
4 Ohm	4	1/8, cf = 4.0 (12dB)	1042	12.4	6.4	292	251	996
4 Ohm	8	1/4, cf = 2.8 (9dB)	1035	12.4	6.4	285	245	972
4 Ohm	8	1/8, cf = 4.0 (12dB)	624	8.2	4.3	249	214	850
8 Ohm	8	1/4, cf = 2.8 (9dB)	1767	20.0	10.4	267	230	911
8 Ohm	8	1/8, cf = 4.0 (12dB)	1012	12.4	6.5	262	225	894

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated

Model 48M03

Sleep mode (slow wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
4.5	0.4	0.2	4.5	4	15

Standby mode (fast wake up)					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
60	1.0	0.5	60	52	205

Running with no audio signal					
AC Mains Power Draw (Watts)	Current Draw (Amps)		Thermal Dissipation		
	120Vac	230Vac	Watts	kcal/hr	btu/hr
204	3	1.55	204	175	696

Running (all channels driven)								
Load Mode	Load (Ohms)	Signal duty & Crest Factor	Input power (Watts)	Input Current (Amps)		Thermal Dissipation		
				120Vac	230Vac	Watts	kcal/hr	btu/hr
2 Ohm	2	1/8, cf = 4.0 (12dB)	649	9.1	4.7	274	236	935
2 Ohm	4	1/4, cf = 2.8 (9dB)	634	8.8	4.6	259	222	882
2 Ohm	4	1/8, cf = 4.0 (12dB)	420	5.9	3.1	232	199	792
4 Ohm	4	1/4, cf = 2.8 (9dB)	1028	23.4	12.2	278	239	949
4 Ohm	4	1/8, cf = 4.0 (12dB)	623	8.7	4.5	248	213	846
4 Ohm	8	1/4, cf = 2.8 (9dB)	620	8.6	4.5	245	210	834
4 Ohm	8	1/8, cf = 4.0 (12dB)	414	5.8	3.0	227	195	773
8 Ohm	8	1/4, cf = 2.8 (9dB)	986	22.4	11.7	236	202	804
8 Ohm	8	1/8, cf = 4.0 (12dB)	608	8.5	4.4	233	200	795

Notes

- The amplifier was configured to have no audio processing
- Measurements were performed with a Hameg HM8115-2 power analyser
- All measurements were done at 230Vac, 50Hz.
- The Current Draw figures for 120Vac are calculated