

200Watts

- Exceptional small size
- Gallium nitride switch technology
- IEC/EN/ANSI/AAMI ES60601-1 3.1
- EN55011 Level B conducted & radiated & EN60601-1-2
- Class I (C14) or II (C8)
- Single outputs 12 to 48V
- 5 Year warranty



Dimensions:

6.56 x 2.13 x 1.3" (166.5 x 54.2 x 33mm)

The GDM200 range of external AC-DC power adapters offer a class leading power density of 11W/In³, approximately 2.5 x smaller. They are compliant with the latest medical standards IEC60601-1 3.1 and EN60601-1-2. The units offer 192-200 watts of output power with output voltages available between 12 and 48VDC. The range is reliable, cost competitive, and comes with an impressive FiDUS 5 year warranty.

Models & Ratings

Model Number ⁽¹⁾	Output Power	Output voltage	Output Current
GDM20012-C8	192W	12V	16.0A
GDM20015-C8	195W	15V	13.0A
GDM20019-C8	200W	19V	10.5A
GDM20024-C8	200W	24V	8.3A
GDM20048-C8	200W	48V	4.2A

Notes

1. For C14 version please change -C8 for -C14
2. Alternative output connectors available for production quantities.
3. For UK/ US/ EU mains power cable please order UK-C8/14, US-C8/14 or EU-C8/14 separately

Key specifications

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
AC Input range	90		264	VAC	Derate from 100% at 100VAC to 85% at 85VAC
Operating temperature	-20		60/70	°C	See derating curve page 2
Efficiency	90		94	%	
Dimensions	6.56 x 2.13 x 1.3" (166.5 x 54.2 x 33mm)				
EMC	EN55011 Level B conducted and radiated. EN61000-3 and EN61000-4, harmonics, flicker, surge, EFT, ESD, conducted and radiated immunity EN60601-1-2				

Safety Approvals

	Safety standard	Notes & Conditions
UL	ANSI/AAMI ES 60601-1 3.1	
CB	IEC 60601-1	
TUV	EN 60601-1	
CE		2015/863/EU RoHS Directive and MDD
Equipment protection class		Class I or II (please choose C14 or C8 respectively)

Input

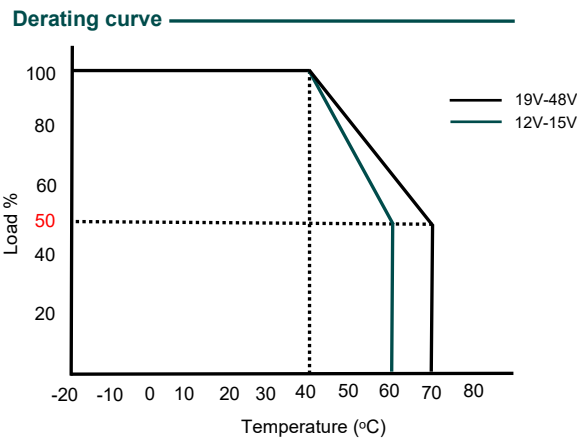
Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Input voltage	90		264	VAC	Derate from 100% at 100VAC to 85% at 85VAC
Input frequency	47		63	Hz	
Power factor					EN61000-3-2 class A compliant
Input current	1.1		2.4	A	
Inrush current			100	A	High line. Full load, 25°C cool start, Vin=230VAC
No load input power			0.15	W	230VAC

Output

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Output voltage	12		48	VDC	
Total regulation			±5	%	Includes set accuracy, line & load regulation.
Minimum load	0			%	
Transient response		0.5		mS	50% load change
Ripple & Noise		1		%Pk-Pk	All models measured with 10uF and 0.1uf capacitor. 20 MHz bandwidth
Hold up time	10			ms	At full load
Overload protection			180	%	Automatic recovery
Short circuit protection					Automatic recovery
Over voltage protection			180	%	Latch off reset
Over temperature protection					Latch off reset

Environmental

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating temperature	-20		60/70	°C	See derating curve below
Storage temperature	-20		80	°C	
Cooling					Convection cooled
Operating Humidity	20		80	% RH	
Storage Humidity	10		90	% RH	



GDM200 Series

General

Parameter	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency	90		94	%	
Isolation	Input to Output: 4000			VAC	For 1 minute. 2x MOPP. Input to GND 1770VAC
Insulation resistance		10		MOhm	500Vdc
Power density			11	W/In ³	
MTBF	300			kHrs	As per Telcordia SR-332
Weight		620		g	
Switching Frequency		250		kHz	

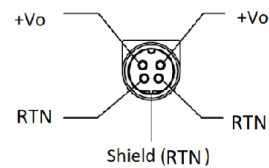
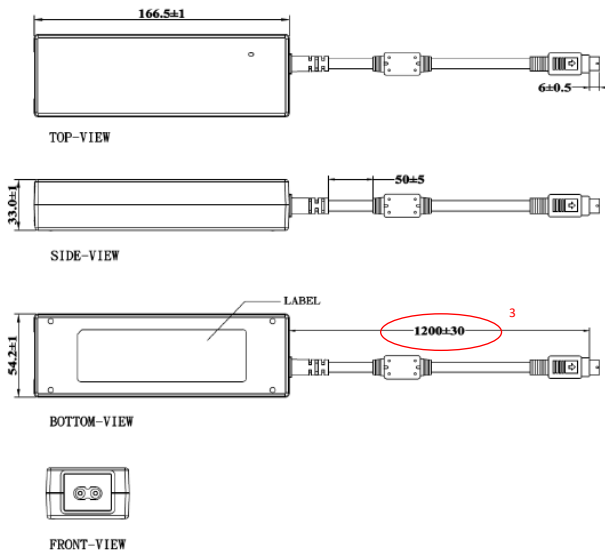
EMC: Emissions

	Standard	Test level	Criteria	Notes & Conditions
Conducted	EN55011	B		
Radiated	EN55011	B		
Harmonic current	EN61000-3-2	Class A		
Voltage flicker	EN61000-3-3			

EMC: Immunity

	Standard	Test level	Criteria	Notes & Conditions
ESD	EN61000-4-2	4	A	Contact: 8kV, Air: 15kV
Radiated	EN61000-4-3	3	A	10V/m
EFT	EN61000-4-4	2	A	1kV
Surges	EN61000-4-5	Installation Class 3	A	Line to Neutral 1kV, Line/Neutral to PE 2kV
Conducted	EN61000-4-6	2	A	3/6Vrms
PFMF	EN61000-4-8	4	A	30A/m
Dips and interruptions	EN61000-4-11			

Mechanical Details



For UK/ US/ EU mains power cable please order UK-C8, US-C8 or EU-C8 separately

Notes

- All dimensions in mm
- Output connector : Kycon 4 pole power adapter, mates with board mount KPJX, panel mount KPJX-PM and cable mount KPJX-CM
- 12V-15V output uses 4C 16AWG UL2464 7.5mm od, 19V-24V 4C 18AWG 6.3mm od 1.5M, 48V 2C 18AWG 5.5mm od 1.5M.