

GDA200 SERIES



200W EXTERNAL

DIMENSIONS:



C14 - 6.33 x 2.12 x 1.3" (161 x 54 x 33mm)
C8 - 5.9 x 2.12 x 1.3" (150 x 54 x 33mm)

COMPACT SIZE

CLASS I OR II

LEVEL VI

EN55032 LEVEL B

CONNECTOR
CUSTOMISATION

UP TO 95% EFFICIENT

Part numbers

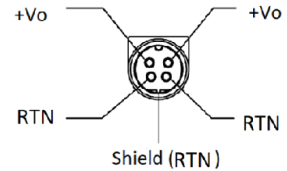
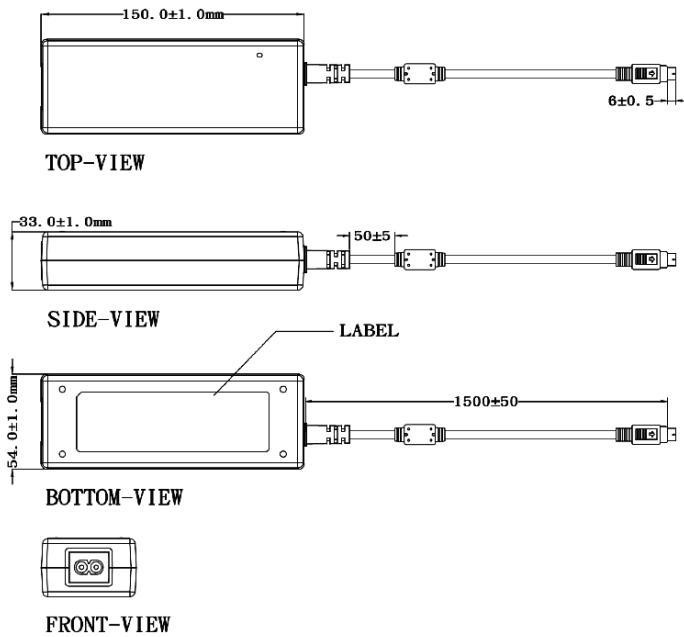
| GDA | 200 | 12 | - | C14 |
|--------|-----------|--|---|-------------------------|
| Series | Power (W) | Output voltage | | Options |
| | | 12 = 12VDC 18 = 18VDC 19 = 19VDC 20 = 20VDC 24 = 24VDC 48 = 48VDC 56 = 56VDC | | -C14 inlet -C8 inlet |

Key specifications

| Input range | Safety certification | Efficiency | Environmental performance |
|-------------|----------------------|------------|-----------------------------|
| 90-264VAC | UL/IEC/EN 62368-1 | <95% | Operational: -20 to 60/70°C |

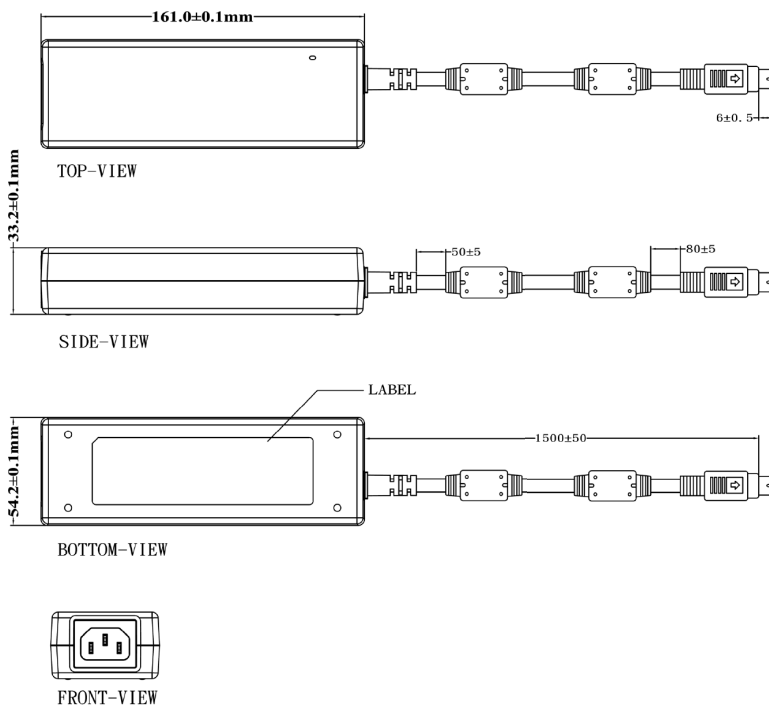
Mechanical

C8 Version



For UK/ US/ EU mains power cable please order UK-C14, US-C14 or EU-C14 separately

C14 Version



Notes

1. All dimensions in mm
2. Output connector : Kycon 4 pole power adapter, mates with board mount KPJX, panel mount KP-JX-PM and cable mount KPJX-CM
3. C8 Shown. C14 inlet models are longer at 161mm
4. Output cable for 12V units is reduced to 1200mm for energy efficiency. AWG16 4 Core 12V 7.5mm OD, AWG18 4 Core for 18-24V 6.3mm OD, AWG18 2C 48V & 56V 5.5mm OD

Weight

560g

GDA200 SERIES

Models & Ratings

| Model Number ⁽¹⁾ | Output Power | Output voltage | Output current |
|-----------------------------|--------------|----------------|----------------|
| GDA20012-C14 | 192W | 12V | 16.0A |
| GDA20018-C14 | 200W | 18V | 11.1A |
| GDA20019-C14 | 200W | 19V | 10.5A |
| GDA20020-C14 | 200W | 20V | 10.0A |
| GDA20024-C14 | 200W | 24V | 8.30A |
| GDA20048-C14 | 200W | 48V | 4.20A |
| GDA20056-C14 | 200W | 56V | 3.60A |

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

Input

| Parameter | Min | Typical | Max | Unit | Notes/Conditions |
|---------------------|-----|---------|------|------|--|
| Input voltage | 90 | | 264 | VAC | Derate from 100% at 100VAC to 90% at 90VAC. See derating curve on page 5 |
| Input frequency | 47 | | 63 | Hz | |
| Power factor | | | | | EN61000-3-2 class A compliant |
| Input current (rms) | | | 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 | Min | Typical | Max | Unit | Notes/Conditions |
|--------------------|-----|---------|------|--------|--|
| Output voltage | 12 | | 56 | VDC | ±5% accuracy |
| Total regulation | | | ±5 | % | |
| 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. 150mV for 12V version |
| Hold up time | 10 | | | mS | At full load |
| Leakage current | | | 0.25 | mA | |

Protections

| Parameter | Min | Typical | Max | Unit | Notes/Conditions |
|-------------------------|-----|---------|-----|------|--------------------|
| Overload | | | 180 | % | Automatic recovery |
| Short circuit | | | | | Automatic recovery |
| Over voltage protection | | | 150 | % | Latch off reset |

Safety

| Parameter | Min | Typical | Max | Unit | Notes/Conditions |
|-----------------------|-----------------------|---------|------|-------|------------------------|
| Safety standards | UL/IEC/EN 62368-1 | | | | |
| Isolation | Input to Output: 3000 | | | VAC | For 1 minute |
| Insulation resistance | | 10 | | MOhm | 500Vdc input to output |
| Power density | | | 12.5 | W/In3 | |

EMC: Emissions

| | Standard | Test level | Criteria | Notes/Conditions |
|------------------|-------------|------------|----------|------------------|
| Conducted | EN55032 | B | | |
| Radiated | EN55032 | 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 | 2, 3 | A | Contact: 4KV, Air: 8kV |
| Radiated | EN61000-4-3 | 2 | A | 3V/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 | 3Vrms |
| PFMF | EN61000-4-8 | 1 | A | 1A/m |
| Dips and interruptions | EN61000-4-11 | >95% interruption 250 periods, >95% dip 0.5 periods, 30% dip 25 periods. Perf criteria: B,A,A | | |

Environmental

| Parameter | Min | Typical | Max | Unit | 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 | |
| MTBF | 300 | | | kHrs | As per Telcordia SR-332 |

