

GDA300 SERIES



300W EXTERNAL

DIMENSIONS:



C14 - 7.2 x 3.35 x 1.38" (183 x 85 x 35mm)
C18 - 7.2 x 3.35 x 1.38" (183 x 85 x 35mm)

COMPACT SIZE

CLASS I OR II

2 x MOPP

EN55011 LEVEL B

CONNECTOR
CUSTOMISATION

UP TO 95% EFFICIENT

Part numbers

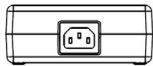
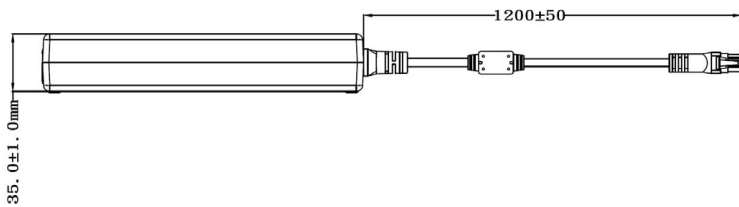
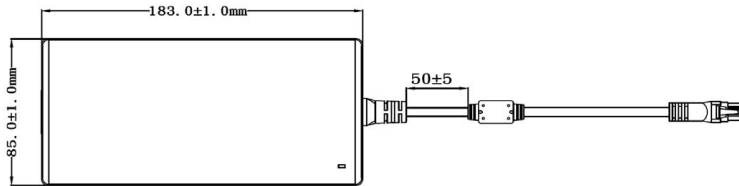
| GDA | 250 | 12 | - | C14 |
|--------|-----------|--|---|--------------------------|
| Series | Power (W) | Output voltage | | Options |
| | | 12 = 12VDC 15 = 15VDC 19 = 19VDC 24 = 24VDC 48 = 48VDC 56 = 56VDC | | -C14 inlet -C18 inlet |

Key specifications

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

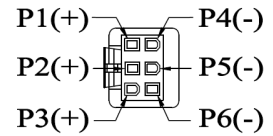
Mechanical

C14 version

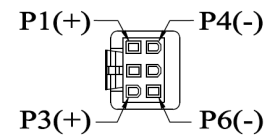


FRONT-VIEW

12V - 19V

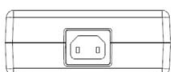
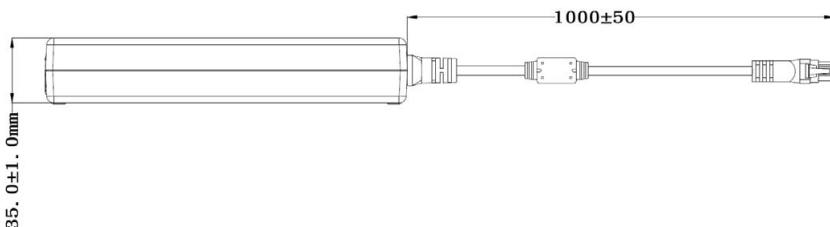
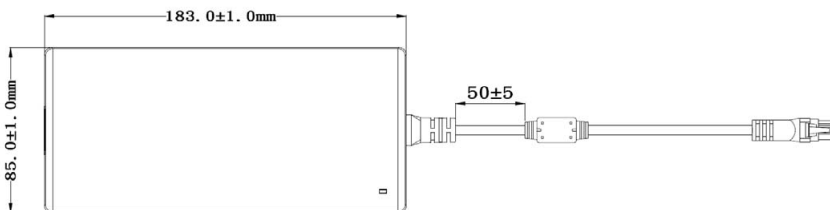


24V - 56V



C18 version

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



FRONT-VIEW

Notes

1. All dimensions in mm
2. Output connector : Molex 6pin mini-fit, Pitch 4.2mm, mates with 26013116
3. UL2464 output cable for 12, 15, 19V units is reduced to 1000mm for energy efficiency. AWG16 6 Core 12V-19V, AWG18 4C 24V, AWG18 6 Core for 48V AWG18 4C 56V

Weight

1050g

GDA300 SERIES



Models & Ratings

| Model Number ⁽¹⁾ | Output Power | Output voltage | Output current |
|-----------------------------|--------------|----------------|----------------|
| GDA30012-C14 | 288W | 12V | 24.0A |
| GDA30015-C14 | 300W | 15V | 20.0A |
| GDA30019-C14 | 300W | 19V | 15.79A |
| GDA30024-C14 | 300W | 24V | 12.5A |
| GDA30048-C14 | 300W | 48V | 6.25A |
| GDA30056-C14 | 300W | 56V | 5.36A |

1. For C18 version change -C14 for -C18
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 | 85 | | 264 | VAC | Derate from 100% at 100VAC to 85% at 85VAC. See derating curve on page 5 |
| Input frequency | 47 | | 63 | Hz | |
| Power factor | | | | | EN61000-3-2 class A compliant |
| Input current (rms) | 1.5 | | 3.9 | A | |
| Inrush current | | | 150 | A | High line. Full load, 25°C cool start, Vin=230VAC |
| No load input power | | | 0.5 | 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 |
| 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. Input to ground 1770 VAC |
| Insulation resistance | | 10 | | MOhm | 500Vdc input to output |
| Power density | | | 9 | 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 | 3 | A | 2kV |
| 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 |

