Features

- Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- No load power consumption < 0.075W

Energy efficiency Level VI

- Comply with EISA 2007/DoE, NRCan, AU/NZ MEPS, EU ErP and CoC Version 5
- Class I power (with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- Pass LPS
- Fanless design with -30~+70°C working temperature
- LED indicator for power on
- 3 years warranty

Description

GST60A is a highly reliable, 60W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 92% and the extremely low no-load power consumption below 0.075W, GST60A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, EU ErP, and Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case. GST60A is certified for the international safety regulations.

Model Encoding

GST 60 A [05] [P1J]

DC plug type
- P1J: Plug for standard model, 2.1φ x 5.5φ x 11mm, c+. tuning fork type

Optional plug type available by customer requested

Output voltage
IEC320-C14 AC inlet
Output wattage
Series name
## Specification

### GST60A Series

#### Order No.

<table>
<thead>
<tr>
<th>GST60A05-P1J</th>
<th>GST60A07-P1J</th>
<th>GST60A09-P1J</th>
<th>GST60A12-P1J</th>
<th>GST60A15-P1J</th>
<th>GST60A18-P1J</th>
<th>GST60A24-P1J</th>
<th>GST60A48-P1J</th>
</tr>
</thead>
</table>

#### Safety Model No.

- 60W AC-DC High Reliability Industrial Adaptor

#### DC Voltage

<table>
<thead>
<tr>
<th>Model</th>
<th>DC Voltage</th>
</tr>
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<tbody>
<tr>
<td>GST60A05-P1J</td>
<td>5V</td>
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<td>GST60A07-P1J</td>
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<td>24V</td>
</tr>
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<td>GST60A48-P1J</td>
<td>48V</td>
</tr>
</tbody>
</table>

#### Rated Current

- 6A (as available on http://www.meanwell.com)

#### Current Range

- 0 ~ 6A
- 0 ~ 5A
- 0 ~ 4A

#### Rated Power (max.)

- 30W
- 45W
- 54W
- 60W
- 60W
- 60W
- 60W
- 60W

#### Protective Ratings

- 150mVp-p
- 150mVp-p
- 150mVp-p
- 150mVp-p
- 150mVp-p
- 150mVp-p
- 150mVp-p
- 240mVp-p

#### Voltage Tolerance

- ±0.5%
- ±0.5%
- ±5.0%
- ±3.0%
- ±3.0%
- ±3.0%
- ±3.0%
- ±2.5%

#### Load Tolerance

- ±5.0%
- ±5.0%
- ±5.0%
- ±3.0%
- ±3.0%
- ±3.0%
- ±3.0%
- ±2.5%

#### Over Voltage

- 1000ms, 50ms / 230VAC
- 1000ms, 50ms / 115VAC

#### Over Temperature

- Shut down o/p voltage, re-power on to recover

#### Environment

- Working Temp.: -30 ~ +70°C (Refer to "Derating Curve")
- Relative Humidity: 20% ~ 90% RH non-condensing
- Storage Temp. & Humidity: -40 ~ +85°C, 10 ~ 95% RH
- Temp Coefficient: ± 0.03% / °C (0 ~ 50°C)
- Vibration: 10 ~ 500Hz, 2G 10min./cycle, period for 60min. each along X, Y, Z axes

#### Safety & EMC (Note. 9)

- UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943, PSE J60950-1, AS/NZS 60950.1, BIS IS13252, KCS K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved

#### Input

- Voltage Range: 90 ~ 264VAC, 135 ~ 370VDC
- Frequency Range: 47 ~ 63Hz
- Efficiency (Typ.): 85.5%
- AC Current (Typ.): 1.4A / 115VAC, 1A / 230VAC

#### Protection

- Overload Protection: Type: Hiccup mode, recovers automatically after fault condition is removed
- Over Voltage Protection: Type: Shut down o/p voltage, re-power on to recover
- Other Types: Inrush Current (max.): 65A / 230VAC, Leakage Current (max.): 0.75mA / 240VAC

#### Output

<table>
<thead>
<tr>
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<th>Voltage</th>
<th>Current</th>
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<tbody>
<tr>
<td>GST60A05-P1J</td>
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<td>6A</td>
</tr>
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#### Safety Standards

- GB9254, GB17625.1, EAC TP TC 020 MSIP KN32
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- GB9254, GB17625.1, EAC TP TC 020 MSIP KN32

#### Note

1. All parameters are specified at 230VAC input, rated load, 25°C, 70% RH ambient.
2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
4. Tolerance: includes set up tolerance, line regulation, load regulation.
5. Line regulation is measured from low line to high line at rated load.
6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to an increase of the set up time.
7. Derating may be needed under low input voltages. Please check the derating curve for more details.
8. The demand for Malaysia safety is processed with the order no. GST60A12-SIRIM by request. Please contact MEAN WELL for details.
9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
**Mechanical Specification**

- **Case No. GS60A**
- **Unit:mm**
- UL2464 16AWG 1000±50mm for 5 ~ 9V
- UL1185 16AWG 1000±50mm for 12 ~ 15V
- UL1185 16AWG 1500±50mm for 18V
- UL1185 18AWG 1800±50mm for 24 ~ 48V

**Plug Assignment**

- **Standard plug:** P1J

<table>
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<tbody>
<tr>
<td><strong>P/N</strong></td>
<td><strong>OUTPUT</strong></td>
</tr>
<tr>
<td>CENTER</td>
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**Installation Manual**