



## Інструкція з експлуатації

- **Тип: Адаптер (Серії: GE, GEM, GS, GSM, GST, OWA, SGA, SGAS, GP, GC, NGE)**

- **Вступ**

Адаптер - це різновид зовнішнього імпульсного джерела живлення, яке призначене для підключення частин електричного обладнання. До різновидів адаптерів MEAN WELL належать промислові, вологозахищені та медичні.

- **Встановлення**

- (1) Перш ніж приєднати DC-штекер адаптера до обладнання, від'єднайте адаптер від джерела змінного струму та переконайтеся, що джерело живлення відповідає номіналу напруги та струму на обладнанні.
- (2) Слідкуйте за тим, щоб кабель живлення був щільно вставлений в адаптер, а також за правильним з'єднанням DC-роз'єму і обладнання.
- (3) Бережіть кабель живлення від механічних пошкоджень, не наступайте на нього і не здавлюйте.
- (4) Слідкуйте за хорошою вентиляцією приладу, який використовується, щоб запобігти його перегріванню. Також слід дотримуватися дистанції 10-15 см між приладами, якщо вони випромінюють тепло.
- (5) Кабель живлення повинен бути більшим або рівним SVT, 3G × 18AWG або H03VV-F, 3G × 0,75 мм<sup>2</sup>
- (6) Якщо кінцеве обладнання не використовується протягом тривалого періоду, відключіть його від джерела живлення, щоб уникнути пошкодження від перепадів напруги або удару блискавки.
- (7) Для отримання додаткової інформації про продукцію, будь ласка, відвідайте сайт [www.meanwell.com](http://www.meanwell.com)

- **Попередження / Увага !!**

- (1) Ризик ураження електричним струмом. Усі несправності повинен перевіряти кваліфікований спеціаліст. Будь ласка, не знімайте корпус адаптера самостійно!
- (2) Небезпека пожежі або ураження електричним струмом. Отвори слід захищати від потрапляння сторонніх предметів або рідин.
- (3) Використання неправильного DC-роз'єму чи прикладання сили для того, щоб вставити DC-штекер в прилад може пошкодити його або призвести до несправностей. Будь ласка, прочитайте інформацію про сумісність DC-штекера, що міститься в специфікаціях.
- (4) Адаптер слід розміщувати на надійній, стійкій поверхні. Падіння може завдати йому шкоди.
- (5) Будь ласка, не розміщуйте адаптери в місцях з підвищеною вологістю або біля води.
- (6) Не встановлюйте адаптери в місцях з високою температурою повітря або поблизу джерела вогню. Інформацію щодо максимальної робочої температури ви можете знайти в специфікації.
- (7) Вихідний струм і потужність не повинні перевищувати номінальних значень, зазначених у технічних характеристиках.
- (8) Перед чищенням від'єднайте пристрій від мережі змінного струму. Не використовуйте рідинні та аерозольні засоби для чищення. Для протирання використовуйте лише вологу тканину.
- (9) Увага:
  - (a) Корпус обладнання, яке використовується в комплекті з сертифікованими BSMI адаптерами, повинен бути вогнестійким і відповідати рівню V1 і вище.
  - (b) Експлуатація цього обладнання в житлових умовах може спричинити радіоперешкоди.
- (10) Для утилізації виробу зверніться, будь ласка, до кваліфікованої місцевої компанії.

## Інструкція з експлуатації

- ( 11 ) Цей пристрій відповідає частині 15 Правил FCC. Функціонування відбувається при дотриманні двох умов:
- (a) Цей пристрій не може створювати шкідливих перешкод, та
  - (b) Цей пристрій повинен приймати на себе перешкоди, включно з тими, які можуть викликати збої в роботі.
- ( 12 ) Тільки для GST360A/B: Поверхні, яких не потрібно торкатися для роботи обладнання (час контакту < 1 с).
- ( 13 ) Лише для NGE: для вказівки на те, що блок живлення не можна використовувати, якщо контакти штекера пошкоджені.

### ● Енергоефективність

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Model identifier              | GST18A/B/E/U(05/07/09/12/15/18/24/28/48)-P1J  |
| Input voltage                 | 230Vac                                        |
| Input AC frequency            | 50Hz                                          |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/28.0/48.0 (V) |
| Output current                | 3.0/2.0/2.0/1.5/1.2/1.0/0.75/0.64/0.375 (A)   |
| Output power                  | 15.0W for 5.0/7.0V output<br>18.0W for other  |
| Average active efficiency     | >81.39% for 5V, >85.0% for other              |
| Efficiency at low load (10 %) | >81.6% (typ)                                  |
| No-load power consumption     | <0.10W                                        |

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| Model identifier              | GST25A/B/E/U(05/07/09/12/15/18/24/28/48)-P1J                    |
| Input voltage                 | 230Vac                                                          |
| Input AC frequency            | 50Hz                                                            |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/28.0/48.0 (V)                   |
| Output current                | 4.0/2.93/2.55/2.08/1.66/1.38/1.04/0.89/0.52(A)                  |
| Output power                  | 20.0W for 5.0V, 22.0W for 7.5V, 23.0W for 9.0V, 25.0W for other |
| Average active efficiency     | >83.35% for 5V, >86.35% for other                               |
| Efficiency at low load (10 %) | >81.7%(typ)                                                     |
| No-load power consumption     | <0.10W                                                          |



## Інструкція з експлуатації

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Model identifier              | GST36B/E/U(05/09/12/24/48)-P1J                  |
| Input voltage                 | 230Vac                                          |
| Input AC frequency            | 50Hz                                            |
| Output voltage                | 5.0/9.0/12.0/24.0/48.0 (V)                      |
| Output current                | 4.3/3.11/3.0/1.5/0.75(A)                        |
| Output power                  | 21.5W for 5.0V, 28.0W for 9.0V, 36.0W for other |
| Average active efficiency     | >83.6% for 5V, >87.4% for other                 |
| Efficiency at low load (10 %) | >82.4%(typ)                                     |
| No-load power consumption     | <0.10W                                          |

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Model identifier              | GST40A(05/07/09/12/15/18/24/48)-P1J        |
| Input voltage                 | 230Vac                                     |
| Input AC frequency            | 50Hz                                       |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)   |
| Output current                | 5.0/5.34/4.45/3.34/2.67/2.22/1.67/0.84 (A) |
| Output power                  | 25.0W for 5.0V<br>40.0W for other          |
| Average active efficiency     | >83.46% for 5V, >87.59% for other          |
| Efficiency at low load (10 %) | >84.54%(typ)                               |
| No-load power consumption     | <0.10W                                     |

|                               |                                                                     |
|-------------------------------|---------------------------------------------------------------------|
| Model identifier              | GST60A(05/07/09/12/15/18/24/48)-P1J                                 |
| Input voltage                 | 230Vac                                                              |
| Input AC frequency            | 50Hz                                                                |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)                            |
| Output current                | 6.0/6.0/6.0/5.0/4.0/3.33/2.5/1.25(A)                                |
| Output power                  | 30.0W for 5.0V, 45.0W for 7.5V,<br>54.0 W for 9.0V, 60.0W for other |
| Average active efficiency     | >85.07% for 5V, > 88% for other                                     |
| Efficiency at low load (10 %) | >85.0%(typ)                                                         |
| No-load power consumption     | <0.21W                                                              |



## Інструкція з експлуатації

|                               |                                  |
|-------------------------------|----------------------------------|
| Model identifier              | GST90A(12/15/19/24/48)-P1M       |
| Input voltage                 | 230Vac                           |
| Input AC frequency            | 50Hz                             |
| Output voltage                | 12.0/15.0/19.0/24.0/48.0 (V)     |
| Output current                | 6.67/6.0/4.74/3.75/1.87(A)       |
| Output power                  | 80.0W for 12.0V, 90.0W for other |
| Average active efficiency     | >88.0 %                          |
| Efficiency at low load (10 %) | >86.1 %(typ)                     |
| No-load power consumption     | <0.21W                           |

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Model identifier              | GST120A(12/15/20/24/48)-R7B/P1M                      |
| Input voltage                 | 230Vac                                               |
| Input AC frequency            | 50Hz                                                 |
| Output voltage                | 12.0/15.0/20.0/24.0/48.0 (V)                         |
| Output current                | 8.5/7.0/6.0/5.0/2.5(A)                               |
| Output power                  | 102.0W for 12.0V, 105.0W for 15.0V, 120.0W for other |
| Average active efficiency     | >88.0 %                                              |
| Efficiency at low load (10 %) | >86.5 %(typ)                                         |
| No-load power consumption     | <0.21W                                               |

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Model identifier              | GST160A(12/15/20/24/48)-R7B                          |
| Input voltage                 | 230Vac                                               |
| Input AC frequency            | 50Hz                                                 |
| Output voltage                | 12.0/15.0/20.0/24.0/36.0/48.0 (V)                    |
| Output current                | 11.5/9.6/8.0/6.67/4.44/3.34(A)                       |
| Output power                  | 138.0W for 12.0V, 144.0W for 15.0V, 160.0W for other |
| Average active efficiency     | >88.0 %                                              |
| Efficiency at low load (10 %) | >80.0 %(typ)                                         |
| No-load power consumption     | <0.21W                                               |



## Інструкція з експлуатації

|                               |                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------|
| Model identifier              | GST220A(12/15/20/24/36/48)-R7B                                                                                   |
| Input voltage                 | 230Vac                                                                                                           |
| Input AC frequency            | 50Hz                                                                                                             |
| Output voltage                | 12.0/15.0/20.0/24.0/36.0/48.0 (V)                                                                                |
| Output current                | 15.0/13.4/11.0/9.2/6.1/4.6(A)                                                                                    |
| Output power                  | 180.0W for 12.0V, 201.0W for 15.0V,<br>220.0W for 20.0V, 221.0W for 24.0V,<br>219.6W for 36.0V, 221.0W for 48.0V |
| Average active efficiency     | >88.0 %                                                                                                          |
| Efficiency at low load (10 %) | >80.0 %(typ)                                                                                                     |
| No-load power consumption     | <0.21W                                                                                                           |

|                               |                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------|
| Model identifier              | GST280A(12/15/20/24/48)-C6P                                                                       |
| Input voltage                 | 230Vac                                                                                            |
| Input AC frequency            | 50Hz                                                                                              |
| Output voltage                | 12.0/15.0/20.0/24.0/48.0(V)                                                                       |
| Output current                | 21.0/17.0/13.0/11.67/5.84(A)                                                                      |
| Output power                  | 252.0W for 12.0V, 255.0W for 15.0V,<br>260.0W for 20.0V, 280.08W for 24.0V ,<br>280.32W for 48.0V |
| Average active efficiency     | >89.5%                                                                                            |
| Efficiency at low load (10 %) | >82.5% (typ)                                                                                      |
| No-load power consumption     | <0.50W                                                                                            |



## Інструкція з експлуатації

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Model identifier              | GST360A/B(12/15/24/36/48/55)-C6P/C8P                                 |
| Input voltage                 | 230Vac                                                               |
| Input AC frequency            | 50Hz                                                                 |
| Output voltage                | 12.0/15.0/24.0/36.0/48.0/55.0 (V)                                    |
| Output current                | 27.5/22.7/15.0/10.0/7.5/6.55 (A)                                     |
| Output power                  | 330.0W for 12.0V output, 340.5W for 15.0V output<br>360.0W for other |
| Average active efficiency     | >88.0%                                                               |
| Efficiency at low load (10 %) | >82.5% (typ)                                                         |
| No-load power consumption     | <0.50W                                                               |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Model identifier              | SGAS06E/U(05/07/09/12/15/24/48)-P1J |
| Input voltage                 | 230Vac                              |
| Input AC frequency            | 50Hz                                |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/24.0/48.0(V)  |
| Output current                | 1.0/0.8/0.66/0.5/0.4/0.25/0.125(A)  |
| Output power                  | 5.0W for 5.0V, 6W for other         |
| Average active efficiency     | >75.91% for 5V, >81.27% for other   |
| Efficiency at low load (10 %) | >72.22%(typ)                        |
| No-load power consumption     | <0.10W                              |

|                               |                                    |
|-------------------------------|------------------------------------|
| Model identifier              | SGAS15A/B/E/U (05/09/12/15/24)-P1J |
| Input voltage                 | 230Vac                             |
| Input AC frequency            | 50Hz                               |
| Output voltage                | 5.0/9.0/12.0/15.0/24.0(V)          |
| Output current                | 2.4/1.66/1.25/1.0/0.625(A)         |
| Output power                  | 12.0W for 5.0V, 15W for other      |
| Average active efficiency     | >81.60% for 5V, >84.92% for other  |
| Efficiency at low load (10 %) | >79.85%(typ)                       |
| No-load power consumption     | <0.10W                             |



## Інструкція з експлуатації

|                               |                                   |
|-------------------------------|-----------------------------------|
| Model identifier              | SGAS60E/U (05/12/15/24/48)-P1J    |
| Input voltage                 | 230Vac                            |
| Input AC frequency            | 50Hz                              |
| Output voltage                | 5.0/12.0/15.0/24.0/48.0(V)        |
| Output current                | 6.0/5.0/4.0/2.5/1.25(A)           |
| Output power                  | 30.0W for 5.0V, 60W for other     |
| Average active efficiency     | >86.22% for 5V, >89.02% for other |
| Efficiency at low load (10 %) | >84.59%(typ)                      |
| No-load power consumption     | <0.15W                            |

### **Примітка:**

Серії GSM відповідають медичному стандарту 60601-1. Наступні параметри ефективності приводяться для довідки про продуктивність:

|                               |                                        |
|-------------------------------|----------------------------------------|
| Model identifier              | GSM06E/U(05/06/07/09/12/15/18/24)-P1J  |
| Input voltage                 | 230Vac                                 |
| Input AC frequency            | 50Hz                                   |
| Output voltage                | 5.0/6.0/7.5/9.0/12.0/15.0/18.0/24.0(V) |
| Output current                | 1.2/1.0/0.8/0.66/0.5/0.4/0.33/0.25(A)  |
| Output power                  | 6.0W for all                           |
| Average active efficiency     | >68% for 5.0V, > 74% for other         |
| Efficiency at low load (10 %) | >65% (typ)                             |
| No-load power consumption     | <0.30W                                 |

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Model identifier              | GSM12U05-P1J/USB,GSM12E/U(07/09/12/15/18/24/48)-P1J |
| Input voltage                 | 230Vac                                              |
| Input AC frequency            | 50Hz                                                |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0(V)             |
| Output current                | 2.4/1.6/1.33/1.0/0.8/0.66/0.5/0.25(A)               |
| Output power                  | 12.0W for all                                       |
| Average active efficiency     | >80.0%                                              |
| Efficiency at low load (10 %) | >78% (typ)                                          |
| No-load power consumption     | <0.075W(<0.1W for 18V/48V)                          |



## Інструкція з експлуатації

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Model identifier              | GSM18B/E/U(05/07/09/12/15/18/24/48)-P1J    |
| Input voltage                 | 230Vac                                     |
| Input AC frequency            | 50Hz                                       |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0//48.0 (V)  |
| Output current                | 3.0/2.0/2.0/1.5/1.2/1.0/0.75/0.375 (A)     |
| Output power                  | 15.0W for 5.0/7.0V output, 18.0W for other |
| Average active efficiency     | >81.39% for 5V, >85.0% for other           |
| Efficiency at low load (10 %) | >81.6% (typ)                               |
| No-load power consumption     | <0.10W                                     |

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Model identifier              | GSM25B/E/U(05/07/09/12/15/18/24/48)-P1J         |
| Input voltage                 | 230Vac                                          |
| Input AC frequency            | 50Hz                                            |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)        |
| Output current                | 4.0/2.93/2.55/2.08/1.66/1.38/1.04/0.52(A)       |
| Output power                  | 20.0W for 5.0V, 22.0W for 7.5V, 25.0W for other |
| Average active efficiency     | >83.35% for 5V, >86.35% for other               |
| Efficiency at low load (10 %) | >81.7%(typ)                                     |
| No-load power consumption     | <0.10W                                          |

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Model identifier              | GSM36B/E/U(05/07/09/12/15/18/24/48)-P1J         |
| Input voltage                 | 230Vac                                          |
| Input AC frequency            | 50Hz                                            |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V)            |
| Output current                | 4.5/4.32/4.0/3.0/2.4/2/1.5/0.75(A)              |
| Output power                  | 22.5W for 5.0V, 32.4W for 7.0V, 36.0W for other |
| Average active efficiency     | >83.6% for 5V, >87.4% for other                 |
| Efficiency at low load (10 %) | >82.4%(typ)                                     |
| No-load power consumption     | <0.10W                                          |





## Інструкція з експлуатації

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Model identifier              | GSM40A/B(05/07/09/12/15/18/24/48)-P1J      |
| Input voltage                 | 230Vac                                     |
| Input AC frequency            | 50Hz                                       |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)   |
| Output current                | 5.0/5.34/4.45/3.34/2.67/2.22/1.67/0.84 (A) |
| Output power                  | 25.0W for 5.0V, 40.0W for other            |
| Average active efficiency     | >83.46% for 5V, >87.59% for other          |
| Efficiency at low load (10 %) | >84.54%(typ)                               |
| No-load power consumption     | <0.10W                                     |

|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| Model identifier              | GSM60A/B/E/U(05/07/09/12/15/18/24/48)-P1J                                           |
| Input voltage                 | 230Vac                                                                              |
| Input AC frequency            | 50Hz                                                                                |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)                                            |
| Output current                | 6.0/6.0/5.5/4.5/4/3.33/2.5/1.25(A)                                                  |
| Output power                  | 30.0W for 5.0V, 45.0W for 7.5V,<br>49.5 W for 9.0V, 54.0W for 12V,<br>60W for other |
| Average active efficiency     | >85.07% for 5V, > 88% for other                                                     |
| Efficiency at low load (10 %) | >85.0%(typ)                                                                         |
| No-load power consumption     | <0.21W                                                                              |

|                               |                                  |
|-------------------------------|----------------------------------|
| Model identifier              | GSM90A/B(12/15/19/24/48)-P1M     |
| Input voltage                 | 230Vac                           |
| Input AC frequency            | 50Hz                             |
| Output voltage                | 12.0/15.0/19.0/24.0/48.0 (V)     |
| Output current                | 6.67/6.0/4.74/3.75/1.87(A)       |
| Output power                  | 80.0W for 12.0V, 90.0W for other |
| Average active efficiency     | >88.0 %                          |
| Efficiency at low load (10 %) | >87.1 %(typ)                     |
| No-load power consumption     | <0.21W                           |



## Інструкція з експлуатації

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Model identifier              | GSM120A/B(12/15/20/24/48)-R7B                        |
| Input voltage                 | 230Vac                                               |
| Input AC frequency            | 50Hz                                                 |
| Output voltage                | 12.0/15.0/20.0/24.0/48.0 (V)                         |
| Output current                | 8.5/7.0/6.0/5.0/2.5(A)                               |
| Output power                  | 102.0W for 12.0V, 105.0W for 15.0V, 120.0W for other |
| Average active efficiency     | >88.0 %                                              |
| Efficiency at low load (10 %) | >86.3 %(typ)                                         |
| No-load power consumption     | <0.21W                                               |

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Model identifier              | GSM160A/B(12/15/20/24/48)-R7B                        |
| Input voltage                 | 230Vac                                               |
| Input AC frequency            | 50Hz                                                 |
| Output voltage                | 12.0/15.0/20.0/24.0/36.0/48.0 (V)                    |
| Output current                | 11.5/9.6/8.0/6.67/4.44/3.34(A)                       |
| Output power                  | 138.0W for 12.0V, 144.0W for 15.0V, 160.0W for other |
| Average active efficiency     | >88.0 %                                              |
| Efficiency at low load (10 %) | >87.6 %(typ)                                         |
| No-load power consumption     | <0.21W                                               |

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| Model identifier              | GSM220A/B(12/15/20/24/48)-R7B                                             |
| Input voltage                 | 230Vac                                                                    |
| Input AC frequency            | 50Hz                                                                      |
| Output voltage                | 12.0/15.0/20.0/24.0/48.0 (V)                                              |
| Output current                | 15.0/13.4/11.0/9.2/4.6(A)                                                 |
| Output power                  | 180.0W for 12.0V, 201.0W for 15.0V,<br>220.0W for 20.0V, 221.0W for other |
| Average active efficiency     | >88.0 %                                                                   |
| Efficiency at low load (10 %) | >84.6 %(typ)                                                              |
| No-load power consumption     | <0.21W                                                                    |



## Інструкція з експлуатації

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| Model identifier              | OWA-60E-12/15/20/24/30/36/42/48/54                                                                 |
| Input voltage                 | 230Vac                                                                                             |
| Input AC frequency            | 50Hz                                                                                               |
| Output voltage                | 12.0/15.0/20.0/24.0/30.0/36.0/42.0/48.0/54.0 (V)                                                   |
| Output current                | 5.0/4.0/3.0/2.5/2.0/1.67/1.5/1.25/1.12(A)                                                          |
| Output power                  | 60.0W for 12.0/15.0/20.0/24.0/30.0/48.0(V),<br>60.12W for 36.0V, 63.0W for 42.0V, 60.48W for 54.0V |
| Average active efficiency     | >88.0 %                                                                                            |
| Efficiency at low load (10 %) | >80.0 %(typ)                                                                                       |
| No-load power consumption     | <0.21W                                                                                             |

|                               |                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| Model identifier              | OWA-90E-12/15/20/24/30/36/42/48/54                                                                 |
| Input voltage                 | 230Vac                                                                                             |
| Input AC frequency            | 50Hz                                                                                               |
| Output voltage                | 12.0/15.0/20.0/24.0/30.0/36.0/42.0/48.0/54.0 (V)                                                   |
| Output current                | 7.5/6.0/4.5/3.75/3.0/2.5/2.15/1.88/1.67 (A)                                                        |
| Output power                  | 90.0W for 12.0/15.0/20.0/24.0/30.0/36.0(V),<br>90.3W for 42.0V, 90.24W for 48.0V, 90.18W for 54.0V |
| Average active efficiency     | >88.0 %                                                                                            |
| Efficiency at low load (10 %) | >79.0 %(typ)                                                                                       |
| No-load power consumption     | <0.21W                                                                                             |

|                               |                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Model identifier              | OWA-120E-(12/15/20/24/30/36/42/48/54)                                                                         |
| Input voltage                 | 230Vac                                                                                                        |
| Input AC frequency            | 50Hz                                                                                                          |
| Output voltage                | 12.0/15.0/20.0/24.0/30.0/36.0/42.0/48.0/54.0 (V)                                                              |
| Output current                | 9.6/8.0/6.0/5.0/4.0/3.4/2.9/2.5/2.3 (A)                                                                       |
| Output power                  | 115W for 12.0V, 120W for 15.0/20.0/24.0/30.0/48.0(V),<br>122.4W for 36.0V, 121.8W for 42.0V, 124.2W for 54.0V |
| Average active efficiency     | >88.0 %                                                                                                       |
| Efficiency at low load (10 %) | >82.5 %(typ)                                                                                                  |
| No-load power consumption     | <0.21W                                                                                                        |



## **Інструкція з експлуатації**

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Model identifier              | OWA-200E-(12/20/24/36/42/48/54)              |
| Input voltage                 | 230Vac                                       |
| Input AC frequency            | 50Hz                                         |
| Output voltage                | 12.0/20.0/24.0/36.0/42.0/48.0/54.0(V)        |
| Output current                | 15.0/10.0/8.3/5.55/4.75/4.17/3.71(A)         |
| Output power                  | 180W for 12.0V, 200W for 20V, 199W for other |
| Average active efficiency     | >91% for 12V, >92.5% for other               |
| Efficiency at low load (10 %) | >87.5%(typ)                                  |
| No-load power consumption     | <0.15W                                       |

|                               |                                          |
|-------------------------------|------------------------------------------|
| Model identifier              | GS06E/U-(1/11/2/3/4/5/6/8)               |
| Input voltage                 | 230Vac                                   |
| Input AC frequency            | 50Hz                                     |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V) |
| Output current                | 1.0/0.8/0.66/0.5/0.4/0.33/0.25/0.125 (A) |
| Output power                  | 6W                                       |
| Average active efficiency     | >78.88 %                                 |
| Efficiency at low load (10 %) | >73.0 %(typ)                             |
| No-load power consumption     | <0.10W                                   |

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Model identifier              | GS15-(1/1-1/2/3/4/5/6/8)                  |
| Input voltage                 | 230Vac                                    |
| Input AC frequency            | 50Hz                                      |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)  |
| Output current                | 2.4/1.6/1.66/1.25/1.0/0.83/0.625/0.31 (A) |
| Output power                  | 12W for 5.0/7.5V, 15.0W for other         |
| Average active efficiency     | >82.96% for 5/7.5V, >84.13% for other     |
| Efficiency at low load (10 %) | >79.0 %(typ)                              |
| No-load power consumption     | <0.10W                                    |



## Інструкція з експлуатації

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Model identifier              | GP25A/B(13A/13D/14E/58F)-R1B                                                         |
| Input voltage                 | 230Vac                                                                               |
| Input AC frequency            | 50Hz                                                                                 |
| Output voltage                | (+5.0,+12.0,-5.0)/(+5.0,+12.0,-12.0)/ (+5.0,+15.0,-15.0) /<br>(+16.0,+48.0,-16.0)(V) |
| Output current                | (2.5,1.2,0.3)/(2.5,1.0,0.3)/(2.5,0.8,0.3)/(1.05,0.087,1.05)(A)                       |
| Output power                  | 28.5W for 13A,28.0W for 13D,29.0W for 14E,<br>37.77W for 58F                         |
| Average active efficiency     | >80% for 13A、 13D , > 80.5% for 14E , > 85% for 58F                                  |
| Efficiency at low load (10 %) | >75.0 %(typ)                                                                         |
| No-load power consumption     | <0.30W                                                                               |

|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| Model identifier              | GP50A(13A/13D/14E/58F)-R1B                                                         |
| Input voltage                 | 230Vac                                                                             |
| Input AC frequency            | 50Hz                                                                               |
| Output voltage                | (+5.0,+12.0,-5.0)/(+5.0,+12.0,-12.0)/(+5.0,+15.0,-15.0)/<br>(+16.0,+48.0,-16.0)(V) |
| Output current                | (4.0,2.0,0.5)/(4.0,2.0,0.5)/(4.0,1.5,0.5)/(2.0,0.15,2.0)(A)                        |
| Output power                  | 46.5W for 13A,50.0W for 13D,50.0W for 14E,71.2W for 58F                            |
| Average active efficiency     | >83.5%                                                                             |
| Efficiency at low load (10 %) | >79.0 %(typ)                                                                       |
| No-load power consumption     | <0.30W                                                                             |



## Інструкція з експлуатації

|                               |                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Model identifier              | GC30B/E/U-(0/1/11/2/4/5/6)P1J                                                                                            |
| Input voltage                 | 230Vac                                                                                                                   |
| Input AC frequency            | 50Hz                                                                                                                     |
| Output voltage                | 4.2/5.6/7.2/8.4/14.3/16.8/28.6(V)                                                                                        |
| Output current                | 4.0/3.99/3.0/3.0/2.09/1.6/1.04(A)                                                                                        |
| Output power                  | 16.8W for 4.2V, 22.38W for 5.6V, 21.6W for 7.2V,<br>25.2W for 8.4V, 30.0W for 14.3V, 27.0W for 16.8V,<br>30.0W for 28.6V |
| Average active efficiency     | >55% for 4.2V , > 70% for other                                                                                          |
| Efficiency at low load (10 %) | >52% for 4.2V , > 67% for other (typ)                                                                                    |
| No-load power consumption     | <1.0W                                                                                                                    |

|                               |                                          |
|-------------------------------|------------------------------------------|
| Model identifier              | SGA12-(5/7.5/9/12/15/18/24/48)           |
| Input voltage                 | 230Vac                                   |
| Input AC frequency            | 50Hz                                     |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V) |
| Output current                | 2.4/1.6/1.33/1.0/0.8/0.66/0.5/0.25 (A)   |
| Output power                  | 12W                                      |
| Average active efficiency     | >82.96 %                                 |
| Efficiency at low load (10 %) | >75.0 %(typ)                             |
| No-load power consumption     | <0.10W                                   |

|                               |                                      |
|-------------------------------|--------------------------------------|
| Model identifier              | SGA18-(5/9/12/15/18/24/48)           |
| Input voltage                 | 230Vac                               |
| Input AC frequency            | 50Hz                                 |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V) |
| Output current                | 3.0/2.0/1.5/1.2/1.0/0.75/0.375 (A)   |
| Output power                  | 15W for 5.0V, 18.0W for other        |
| Average active efficiency     | >84.1 % for 5V, >85.0% for other     |
| Efficiency at low load (10 %) | >78.5 %(typ)                         |
| No-load power consumption     | <0.10W                               |



## Інструкція з експлуатації

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Model identifier              | SGA25-(5/7.5/9/12/15/18/24/48)              |
| Input voltage                 | 230Vac                                      |
| Input AC frequency            | 50Hz                                        |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)    |
| Output current                | 4.0/2.93/2.77/2.08/1.66/1.38/1.04/0.52 (A)  |
| Output power                  | 20W for 5.0V, 22W for 7.5V, 25.0W for other |
| Average active efficiency     | >85.4% for 5V, >86.35% for other            |
| Efficiency at low load (10 %) | >81.0 %(typ)                                |
| No-load power consumption     | <0.10W                                      |

|                               |                                       |
|-------------------------------|---------------------------------------|
| Model identifier              | SGA40-(5/9/12/15/18/24/48)            |
| Input voltage                 | 230Vac                                |
| Input AC frequency            | 50Hz                                  |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V)  |
| Output current                | 5.0/4.44/3.33/2.66/2.22/1.67/0.84 (A) |
| Output power                  | 25W for 5.0V, 40.0W for other         |
| Average active efficiency     | >86.35% for 5V, >87.6% for other      |
| Efficiency at low load (10 %) | >85.0 %(typ)                          |
| No-load power consumption     | <0.10W                                |

|                               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Model identifier              | SGA60-(5/7.5/9/12/15/18/24/48)                               |
| Input voltage                 | 230Vac                                                       |
| Input AC frequency            | 50Hz                                                         |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)                     |
| Output current                | 6.0/6.0/5.5/5.0/4.0/3.33/2.5/1.25 (A)                        |
| Output power                  | 30W for 5.0V, 45W for 7.5V, 50W for 9.0V,<br>60.0W for other |
| Average active efficiency     | >86.95% for 5V, >87.73% for 7.5V, >89.0% for other           |
| Efficiency at low load (10 %) | >84.0 %(typ)                                                 |
| No-load power consumption     | <0.21W                                                       |



## Інструкція з експлуатації

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Model identifier              | GE12I-(5/7.5/9/12/15/18/24)                                      |
| Input voltage                 | 230Vac                                                           |
| Input AC frequency            | 50Hz                                                             |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0 (V)                              |
| Output current                | 2.0/1.33/1.33/1.0/0.8/0.83/0.625 (A)                             |
| Output power                  | 10W for 5.0/7.5V, 12W for 9/12/15V, 15W for other                |
| Average active efficiency     | >81.95% for 5.0/7.5V, >82.96% for 9/12/15V,<br>>84.13% for other |
| Efficiency at low load (10 %) | >72.1 %(typ)                                                     |
| No-load power consumption     | <0.10W                                                           |

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Model identifier              | GE18I-(5/7.5/9/12/15/18/24/48)                        |
| Input voltage                 | 230Vac                                                |
| Input AC frequency            | 50Hz                                                  |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)              |
| Output current                | 2.4/1.73/2.0/1.5/1.2/1.0/0.75/0.375 (A)               |
| Output power                  | 12W for 5.0V, 13W for 7.5V, 18W for other             |
| Average active efficiency     | >82.96% for 5.0V, >83.38% for 7.5V, >85.00% for other |
| Efficiency at low load (10 %) | >75.1 %(typ)                                          |
| No-load power consumption     | <0.10W                                                |

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Model identifier              | GE24I-(5/7.5/9/12/15/18/24/48)                            |
| Input voltage                 | 230Vac                                                    |
| Input AC frequency            | 50Hz                                                      |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)                  |
| Output current                | 3.0/2.0/2.22/2.0/1.6/1.33/1.0/0.5 (A)                     |
| Output power                  | 15W for 5.0/7.5V, 20W for 9.0V, 24W for other             |
| Average active efficiency     | >84.13% for 5.0/7.5V, >85.47% for 9.0V, >86.20% for other |
| Efficiency at low load (10 %) | >75.8 %(typ)                                              |
| No-load power consumption     | <0.10W                                                    |





## Інструкція з експлуатації

|                               |                         |
|-------------------------------|-------------------------|
| Model identifier              | GE30I-(12/15/18/24)     |
| Input voltage                 | 230Vac                  |
| Input AC frequency            | 50Hz                    |
| Output voltage                | 12.0/15.0/18.0/24.0 (V) |
| Output current                | 2.5/2.0/1.66/1.25 (A)   |
| Output power                  | 30W                     |
| Average active efficiency     | >86.95%                 |
| Efficiency at low load (10 %) | >83.7 % (typ)           |
| No-load power consumption     | <0.10W                  |

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Model identifier              | GEM06I05-P1J/USB, GEM06I ( 06/07/09/12/15/18/24 ) -P1J |
| Input voltage                 | 230Vac                                                 |
| Input AC frequency            | 50Hz                                                   |
| Output voltage                | 5.0/6.0/7.5/9.0/12.0/15.0/18.0/24.0(V)                 |
| Output current                | 1.2/1.0/0.8/0.66/0.5/0.4/0.33/0.25(A)                  |
| Output power                  | 6.0W for all                                           |
| Average active efficiency     | >70% for 5.0V , > 74% for other                        |
| Efficiency at low load (10 %) | >66 % (typ)                                            |
| No-load power consumption     | <0.30W                                                 |

|                               |                                                              |
|-------------------------------|--------------------------------------------------------------|
| Model identifier              | GE40I-(5/7.5/9/12/15/18/24/36/48)                            |
| Input voltage                 | 230Vac                                                       |
| Input AC frequency            | 50Hz                                                         |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/36.0/48.0 (V)                |
| Output current                | 4.0/2.66/3.3/3.3/2.7/2.2/1.67/1.00/0.83 (A)                  |
| Output power                  | 20W for 5.0/7.5V, 30W for 9.0V, 40W for other                |
| Average active efficiency     | >85.47% for 5.0/7.5V, >86.92% for 9.0V,<br>>87.58% for other |
| Efficiency at low load (10 %) | >77.3 % (typ)                                                |
| No-load power consumption     | <0.10W                                                       |



## Інструкція з експлуатації

|                               |                                          |
|-------------------------------|------------------------------------------|
| Model identifier              | GSM12E/GEM12I-(5/7.5/9/12/15/18/24/48)   |
| Input voltage                 | 230Vac                                   |
| Input AC frequency            | 50Hz                                     |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V) |
| Output current                | 1.6/1.33/1.0/0.8/0.66/0.5/0.25 (A)       |
| Output power                  | 12W                                      |
| Average active efficiency     | >82.96%                                  |
| Efficiency at low load (10 %) | >72.96%(typ)                             |
| No-load power consumption     | <0.10W                                   |

|                               |                                      |
|-------------------------------|--------------------------------------|
| Model identifier              | GEM18I-(5/9/12/15/18/24/48)          |
| Input voltage                 | 230Vac                               |
| Input AC frequency            | 50Hz                                 |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V) |
| Output current                | 3.0/2.0/1.5/1.2/1.0/0.75/0.375 (A)   |
| Output power                  | 15W for 5.0V, 18.0W for other        |
| Average active efficiency     | >84.1 % for 5V, >85.0% for other     |
| Efficiency at low load (10 %) | >81.0%(typ)                          |
| No-load power consumption     | <0.10W                               |

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Model identifier              | GEM30I-(5/7.5/9/12/15/18/24/48)                     |
| Input voltage                 | 230Vac                                              |
| Input AC frequency            | 50Hz                                                |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)            |
| Output current                | 4.0/3.33/3.33/2.5/2.0/1.66/1.25/.625 (A)            |
| Output power                  | 20W for 5.0V, 25W for 7.5V, 30.0W for other         |
| Average active efficiency     | >85.47% for 5V, >86.35% for 7.5V, >86.95% for other |
| Efficiency at low load (10 %) | >81.0 %(typ)                                        |
| No-load power consumption     | <0.10W                                              |



## Інструкція з експлуатації

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Model identifier              | GEM40I-(5/9/12/15/18/24/48)                         |
| Input voltage                 | 230Vac                                              |
| Input AC frequency            | 50Hz                                                |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V)                |
| Output current                | 5.0/4.0/3.33/2.66/2.22/1.66/0.83 (A)                |
| Output power                  | 25W for 5.0V, 36W for 9.0V, 40.0W for other         |
| Average active efficiency     | >86.35% for 5V, >87.40% for 9.0V, >87.59% for other |
| Efficiency at low load (10 %) | >85.0 %(typ)                                        |
| No-load power consumption     | <0.10W                                              |

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| Model identifier              | GEM60I-(5/7.5/9/12/15/18/24/48)                                           |
| Input voltage                 | 230Vac                                                                    |
| Input AC frequency            | 50Hz                                                                      |
| Output voltage                | 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)                                  |
| Output current                | 6.0/6.0/5.5/4.5/4.0/3.33/2.5/1.25 (A)                                     |
| Output power                  | 30W for 5.0V, 45W for 7.5V, 50W for 9.0V,<br>54W for 12V, 40.0W for other |
| Average active efficiency     | >86.95% for 5V, >87.73% for 7.5V, >89.0% for other                        |
| Efficiency at low load (10 %) | >83.0 %(typ)                                                              |
| No-load power consumption     | <0.21W                                                                    |

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| Model identifier              | NGE12E/U/I05-P1J/USB,NGE12E/U/I (09/12/15/18/24)-P1J |
| Input voltage                 | 230Vac                                               |
| Input AC frequency            | 50Hz                                                 |
| Output voltage                | 5.0//9.0/12.0/15.0/18.0/24.0(V)                      |
| Output current                | 2.4/1.33/1.0/0.8/0.83/0.625(A)                       |
| Output power                  | 15W for 18/24V output,12W for other                  |
| Average active efficiency     | >82% for 5V,>86% for other                           |
| Efficiency at low load (10 %) | >64.5% for 5V,>73.5% for other                       |
| No-load power consumption     | <0.075W                                              |
| Protective current (input)    | 2A                                                   |



## Інструкція з експлуатації

|                               |                                   |
|-------------------------------|-----------------------------------|
| Model identifier              | NGE18E/U/I(05/09/12/15/18/24)-P1J |
| Input voltage                 | 230Vac                            |
| Input AC frequency            | 50Hz                              |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0(V)    |
| Output current                | 3.0/2.0/1.5/1.2/1.0/0.75(A)       |
| Output power                  | 15W for 5V output,18W for other   |
| Average active efficiency     | >82% for 5V,>87% for other        |
| Efficiency at low load (10 %) | >78% for 5V,>79.5% for other      |
| No-load power consumption     | <0.075W                           |
| Protective current (input)    | 2A                                |

|                               |                                      |
|-------------------------------|--------------------------------------|
| Model identifier              | NGE30E/U/I(05/09/12/15/18/24/48)-P1J |
| Input voltage                 | 230Vac                               |
| Input AC frequency            | 50Hz                                 |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0(V)  |
| Output current                | 4.0/3.33/2.5/2.0/1.66/1.25/0.63(A)   |
| Output power                  | 20W for 5V output,30W for other      |
| Average active efficiency     | >82% for 5V,>87% for other           |
| Efficiency at low load (10 %) | >79% for 5V,>83.5% for other         |
| No-load power consumption     | <0.075W                              |
| Protective current (input)    | 3.15A                                |

|                               |                                                       |
|-------------------------------|-------------------------------------------------------|
| Model identifier              | NGE45E/U/I(05/09/12/15/18/24/48)-P1J                  |
| Input voltage                 | 230Vac                                                |
| Input AC frequency            | 50Hz                                                  |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0(V)                   |
| Output current                | 5.63/4.5/3.75/3.0/2.5/1.88/0.94(A)                    |
| Output power                  | 28.1W for 5V output,40.5W for 9V OUTPUT,45W for other |
| Average active efficiency     | >84% for 5V,>87% for other                            |
| Efficiency at low load (10 %) | >80% for 5V,>85% for other                            |
| No-load power consumption     | <0.075W                                               |
| Protective current (input)    | 3.15A                                                 |



## **Інструкція з експлуатації**

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Model identifier              | NGE65E/U/I/(05/09/12/15/18/24/48)-P1J                                    |
| Input voltage                 | 230Vac                                                                   |
| Input AC frequency            | 50Hz                                                                     |
| Output voltage                | 5.0/9.0/12.0/15.0/18.0/24.0/48.0(V)                                      |
| Output current                | 6.0/5.96/4.88/4.34/3.62/2.71/1.36(A)                                     |
| Output power                  | 30W for 5V output,53.6W for 9V OUTPUT,58.5W for 12V OUTPUT,65W for other |
| Average active efficiency     | >84% for 5V,>87% for other                                               |
| Efficiency at low load (10 %) | >80% for 5V,>85% for other                                               |
| No-load power consumption     | <0.075W                                                                  |
| Protective current (input)    | 3.15A                                                                    |

## Інструкція з експлуатації

|                                                                                                                                                            |                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Model identifier                                                                                                                                           | NGE90E/U/I(12/15/18/24/48/55)-P1J                                                                                       |
| Input voltage                                                                                                                                              | 230Vac                                                                                                                  |
| Input AC frequency                                                                                                                                         | 50Hz                                                                                                                    |
| Output voltage                                                                                                                                             | 12.0/15.0/18.0/24.0/48.0/55.0(V)                                                                                        |
| Output current                                                                                                                                             | 6.25/5.5/5.0/3.75/1.875/1.64(A)                                                                                         |
| Output power                                                                                                                                               | 75/82.5/90/90/90/90.2(W)                                                                                                |
| Average active efficiency                                                                                                                                  | >90%                                                                                                                    |
| Efficiency at low load (10 %)                                                                                                                              | >86% for 12V,>88% for other                                                                                             |
| No-load power consumption                                                                                                                                  | <0.1W                                                                                                                   |
| Protective current (input)                                                                                                                                 | 3.15A                                                                                                                   |
| Model identifier                                                                                                                                           | NGE100/NGE100U                                                                                                          |
| Input voltage                                                                                                                                              | 230Vac                                                                                                                  |
| Input AC frequency                                                                                                                                         | 50Hz                                                                                                                    |
| Output voltage                                                                                                                                             | 5.0/9.0/12.0/15.0/20.0(V)                                                                                               |
| Output current                                                                                                                                             | USB C1/2(5.0V,9.0V,12.0V,15.0V) for 3A, USB C1/2 20V for 5A,USB A1/2(5.0V for 3A,9.0V for 2A,12V for 1.5A,20V for 0.9A) |
| Output power                                                                                                                                               | 100W                                                                                                                    |
| Average active efficiency                                                                                                                                  | >88.5%                                                                                                                  |
| Efficiency at low load (10 %)                                                                                                                              | 83%forC1:20*0.5                                                                                                         |
| No-load power consumption                                                                                                                                  | <0.3W                                                                                                                   |
| Protective current (input)                                                                                                                                 | 3.15A                                                                                                                   |
| <p>Для отримання детальної інформації проскануйте QR-код<br/>нижче</p>  |                                                                                                                         |



## Інструкція з експлуатації

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2024.01.02



Declaration of China RoHS Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL is confirming and announcing the conformity to China RoHS, an Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products.

Environment Friendly Use Period Label

Observing SJT 11364-2024, Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products

Observing SJ/Z 11388-2009, General Guidelines of Environment-friendly Use Period of Electronic Information Products Appendix B, adopting table look-up to verify the Environment Friendly Use Period

Names and Contents of Hazardous Substances Lists

| Part Name                                                                                                                                                                                                                                                                                                                                                                           | Hazardous Substances |         |         |                     |                          |                                |                             |                   |                   |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|---------|---------------------|--------------------------|--------------------------------|-----------------------------|-------------------|-------------------|----------------------|
|                                                                                                                                                                                                                                                                                                                                                                                     | Lead                 | Mercury | Cadmium | Hexavalent chromium | Polybrominated biphenyls | Polybrominated diphenyl ethers | Bis(2-ethylhexyl) phthalate | Dibutyl phthalate | Dibutyl phthalate | Diisobutyl phthalate |
|                                                                                                                                                                                                                                                                                                                                                                                     | (Pb)                 | (Hg)    | (Cd)    | (Cr <sup>6+</sup> ) | (PBB)                    | (PBDEs)                        | (DEHP)                      | (DBP)             | (DBP)             | (DIBP)               |
| PCB and its components                                                                                                                                                                                                                                                                                                                                                              | X                    | O       | O       | O                   | O                        | O                              | O                           | O                 | O                 | O                    |
| Metal structure parts                                                                                                                                                                                                                                                                                                                                                               | X                    | O       | O       | O                   | O                        | O                              | O                           | O                 | O                 | O                    |
| Plastic structure parts                                                                                                                                                                                                                                                                                                                                                             | O                    | O       | O       | O                   | O                        | O                              | O                           | O                 | O                 | O                    |
| Accessories                                                                                                                                                                                                                                                                                                                                                                         | O                    | O       | O       | O                   | O                        | O                              | O                           | O                 | O                 | O                    |
| Cables                                                                                                                                                                                                                                                                                                                                                                              | X                    | O       | O       | O                   | O                        | O                              | O                           | O                 | O                 | O                    |
| O: The concentration of the hazardous substances within the homogeneous material of that product is less than the concentration limits set by GB/T 26572-2011.<br>X: The concentration of the hazardous substances within the homogeneous material of that product is over the concentration limits set by GB/T 26572-2011; however, it follows the standard advised by 2011/65/EU. |                      |         |         |                     |                          |                                |                             |                   |                   |                      |





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## Declaration of China VOC Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL is confirming and announcing the conformity to China's Standardization Administration Releases VOC Standards

| Standard No.  | Name of the Standard                                             |
|---------------|------------------------------------------------------------------|
| GB 30981-2020 | Limit of harmful substances of industrial protective coatings    |
| GB 33372-2020 | Limits for volatile organic compounds content in adhesive        |
| GB 38507-2020 | Limits for volatile organic compounds (VOCs) In printing ink     |
| GB 38508-2020 | Limits for volatile organic compounds content in cleaning agents |

ISO-9001 CERTIFIED

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## Declaration of Five PBT TSCA Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL hereby confirms that MEAN WELL product series comply with Use and Risk Management for Five PBT Chemicals under TSCA section 6(h)

| CAS No.    | Substance Name                                      |
|------------|-----------------------------------------------------|
| 1163-19-5  | Decabromodiphenyl ether (DecaBDE)                   |
| 68937-41-7 | Phenol, isopropylated, phosphate (3:1)<br>PIP (3:1) |
| 732-26-3   | 2,4,6-Tris (tert-butyl) phenol (2,4,6-TTBP)         |
| 133-49-3   | Pentachlorothiophenol (PCTP)                        |
| 87-68-3    | Hexachlorobutadiene (HCBD)                          |

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