

Installation Manual

- **Type : Adaptor (Families : GE, GEM, GS, GSM, GST, OWA, SGA, SGAS, GP, GC, NGE)**

- **Introduction**

Adaptor is a kind of external switching power supply, which is designed to connect pieces of electrical equipment externally. Mean Well's adaptor types include industrial, moisture proof, and medical.

- **Installation**

- (1) Before attaching the DC plug of an adaptor to equipment, please unplug the adaptor from the AC power and verify the unit is within the voltage and current rating on the equipment.
- (2) Keep the linkage between the adaptor and its power cord tightly as well as connecting the DC plug to equipment properly.
- (3) Protect the power cord from being trodden on or being squashed.
- (4) Keep good ventilation for the unit in use to prevent it from overheating. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source.
- (5) An approved power cord should greater or equal to SVT, 3G×18AWG or H03VV-F, 3G×0.75mm².
- (6) If the final equipment is not used for long period of time, disconnect the equipment from power supply to avoid being damaged by voltage peaks or lightning strike.
- (7) For other information about the products, please refer to www.meanwell.com for details.

- **Warning / Caution !!**

- (1) Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the adaptor by yourself!
- (2) Risk of fire or electrical shock. The openings should be protected from foreign objects or dripping liquids.
- (3) Using wrong DC plug or forcing a DC plug into an electronic device may damage the device or cause to malfunction. Please refer to DC plug compatibility information shown in specification sheets.
- (4) Adaptors should be placed on a reliable surface. A drop or fall could cause damage.
- (5) Please do not put adaptors in places with high moisture or near the water.
- (6) Please do not put adaptors in places with high ambient temperature or near fire source. About the maximum ambient temperature, please refer to their specifications.
- (7) Output current and output wattage must not exceed the rated values on specifications.
- (8) Disconnect the unit from the AC power before cleaning. Do not use any liquid or aerosol cleaner. Only use a damp cloth to wipe it.
- (9) Warning:
 - (a) For equipments that are using accompany with BSMI certified adapters, the enclosure of surrounding equipments shall comply with V1 of above flammability capability.
 - (b) Operation of this equipment in a residential environment could cause radio interference.
- (10) Please contact your local qualified recyclers when you want to dispose this product.
- (11) This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - (a) This device may not cause harmful interference, and
 - (b) This device must accept any interference received, including interference that may cause undesired operation.
- (12) Only for GST360A/B: Surfaces that need not be touched to operate the equipment (time of contact < 1 s). The socket-outlet shall be easily accessible.

Installation Manual

(13) Only for NGE:To indicate that the power supply unit shall not be used, if pins of the plug part are damaged.

● Energy efficiency

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 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



Installation Manual

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 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, 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



Installation Manual

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



Installation Manual

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, 220.0W for 20.0V, 221.0W for 24.0V, 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, 260.0W for 20.0V, 280.08W for 24.0V , 280.32W for 48.0V
Average active efficiency	>89.5%
Efficiency at low load (10 %)	>82.5% (typ)
No-load power consumption	<0.50W

Installation Manual

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 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



Installation Manual

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

Note:

GSM series are complied with medical 60601-1 regulation. Following efficiency parameters are for performance reference.

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)



Installation Manual

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



Installation Manual

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, 49.5 W for 9.0V, 54.0W for 12V, 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



Installation Manual

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(12/15/20/24/36/48)-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	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, 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

Installation Manual

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), 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), 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), 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



Installation Manual

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



Installation Manual

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) / (+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, 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)/ (+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



Installation Manual

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, 25.2W for 8.4V, 30.0W for 14.3V, 27.0W for 16.8V, 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

Installation Manual

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, 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

Installation Manual

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, >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

Installation Manual

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, >87.58% for other
Efficiency at low load (10 %)	>77.3 %(typ)
No-load power consumption	<0.10W



Installation Manual

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

Installation Manual

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, 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



Installation Manual

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



Installation Manual

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

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

Installation Manual

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%
Efficiency at low load (10 %)	83% for C1:20*0.5
No-load power consumption	<0.3W
Protective current (input)	3.15A

For detailed information, please scan the QR code below





Installation Manual

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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 (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr ⁶⁺)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDEs)	Bis(2-ethylhexyl) phthalate (DEHP)	Dibutyl phthalate (DBP)	Dibutyl phthalate (DBP)	Diisobutyl phthalate (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.

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.



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



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) 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)