

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.

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

Energy efficiency

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Me	Model identifier	GST18A/B/E/U(05/07/09/12/15/18/24/28/48)-P1J	Ŧ
Of	Input voltage	230Vac	a
	Input AC frequency	50Hz	an
utc	Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/28.0/48.0 (V)	S
j	Output current	3.0/2.0/2.0/1.5/1.2/1.0/0.75/0.64/0.375 (A)	ar
St	Output power	15.0W for 5.0/7.0V output	
0		18.0W for other	0
	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	3
1 "			

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	Model identifier	GST25A/B/E/U(05/07/09/12/15/18/24/28/48)-P1J
人	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)
Ne	Output power	20.0W for 5.0V, 22.0W for 7.5V, 23.0W for 9.0V, 25.0W for
an	a	other
lea	Average active efficiency	>83.35% for 5V, >86.35% for other
f N	Efficiency at low load (10 %)	>81.7%(typ)
0	No-load power consumption	<0.10W
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iti	270	<u>×</u>
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e	Model identifier	GST36B/E/U(05/09/12/24/48)-P1J	ed	=
	Input voltage	230Vac	TIS.	
al	Input AC frequency	50Hz	0	
V	Output voltage	5.0/9.0/12.0/24.0/48.0 (V)	utl	
OI	Output current	4.3/3.11/3.0/1.5/0.75(A)	n a	6
Oľ	Output power	21.5W for 5.0V, 28.0W for 9.0V, 36.0W for other	al	
)UT	Average active efficiency	>83.6% for 5V, >87.4% for other		
	Efficiency at low load (10 %)	>82.4%(typ)	Sal	=
SI	No-load power consumption	<0.10W	ul	
O				

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)	Q
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)	0 =
No-load power consumption	<0.10W	S
<u>e</u>		0
Model identifier	GST60A(05/07/09/12/15/18/24/48)-P1J	
Input voltage	230Vac	<u> </u>
Input AC frequency	50Hz	a l
Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)	<u>.0</u>
Output current	6.0/6.0/6.0/5.0/4.0/3.33/2.5/1.25(A)	<u> </u>
Output power	30.0W for 5.0V, 45.0W for 7.5V,	3
	54.0 W for 9.0V, 60.0W for other	م ت
Average active efficiency	>85.07% for 5V, > 88% for other	
Efficiency at low load (10 %)	>85.0%(typ)	
No-load power consumption	<0.21W	Pulsa

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Model identifier	GST90A(12/15/19/24/48)-P1M	
Input voltage	230Vac	. I
Input AC frequency	50Hz	10
Output voltage	12.0/15.0/19.0/24.0/48.0 (V)	utl
Output current	6.67/6.0/4.74/3.75/1.87(A)	1 3
Output power	80.0W for 12.0V, 90.0W for other	7
Average active efficiency	>88.0 %	.00
Efficiency at low load (10 %)	>86.1 %(typ)	Sal
No-load power consumption	<0.21W	, n
3	•	n

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

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







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1)	Model identifier	GST220A(12/15/20/24/36/48)-R7B	
>	Input voltage	230Vac	1 1 1
D	Input AC frequency	50Hz	
>	Output voltage	12.0/15.0/20.0/24.0/36.0/48.0 (V)	
0	Output current	15.0/13.4/11.0/9.2/6.1/4.6(A)	6
	Output power	180.0W for 12.0V, 201.0W for 15.0V,	
) n	220.0W for 20.0V, 221.0W for 24.0V,	1
	00.	219.6W for 36.0V, 221.0W for 48.0V	
S	Average active efficiency	>88.0 %	,
0	Efficiency at low load (10 %)	>80.0 %(typ)	
	No-load power consumption	<0.21W	j

Model identifier	GST280A(12/15/20/24/48)-C6P	
Input voltage	230Vac	
Input AC frequency	50Hz	Q
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,	0
O O	280.32W for 48.0V	Se
Average active efficiency	>89.5%	. I
Efficiency at low load (10 %)	>82.5% (typ)	÷
No-load power consumption	<0.50W	מ
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Model identifier	GST360A/B(12/15/24/36/48/55)-C6P/C8P	ed
Input voltage	230Vac	S
Input AC frequency	50Hz	10
Output voltage	12.0/15.0/24.0/36.0/48.0/55.0 (V)	utl
Output current	27.5/22.7/15.0/10.0/7.5/6.55 (A)	a L
Output power	330.0W for 12.0V output, 340.5W for 15.0V output 360.0W for other	Sa
Average active efficiency	>88.0%	ar
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	1
Input voltage	230Vac	
Input AC frequency	50Hz	
Output voltage	5.0/7.5/9.0/12.0/15.0/24.0/48.0(V)	Q
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)	0
No-load power consumption	<0.10W	Se
<u></u>	·	O
Model identifier	SGAS15A/B/E/U (05/09/12/15/24)-P1J	Ith
Input voltage	230Vac	al
Input AC frequency	50Hz	an
Output voltage	5.0/9.0/12.0/15.0/24.0(V)	S
Output current	2.4/1.66/1.25/1.0/0.625(A)	ב
Output power	12.0W for 5.0V, 15W for other	S
Average active efficiency	>81.60% for 5V, >84.92% for other	Д
Efficiency at low load (10 %)	>79.85%(typ)	



No-load power consumption

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<0.10W



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

Note:

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

S		
Model identifier	GSM06E/U(05/06/07/09/12/15/18/24)-P1J	
Input voltage	230Vac	D.
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	d
Average active efficiency	>68% for 5.0V, >74% for other	Se
Efficiency at low load (10 %)	>65% (typ)	ori
No-load power consumption	<0.30W	th

Output power	0.0 77 101 411
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 %)	Sar _{78%} (typ) authorised
No-load power consumption	<0.075W(<0.1W for 18V/48V)
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Model identifier	GSM18B/E/U(05/07/09/12/15/18/24/48)-P1J	O
Input voltage	230Vac	ISC
Input AC frequency	50Hz	10
Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0//48.0 (V)	Ħ
Output current	3.0/2.0/2.0/1.5/1.2/1.0/0.75/0.375 (A)	0
Output power	15.0W for 5.0/7.0V output, 18.0W for other	2
Average active efficiency	>81.39% for 5V, >85.0% for other	S
Efficiency at low load (10 %)	>81.6% (typ)	2
No-load power consumption	<0.10W	
		0

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)	0
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	d
7	·	0

140-10au power consumption	<0.10 VV	~
ō		Se
Model identifier	GSM36B/E/U(05/07/09/12/15/18/24/48)-P1J	OĽ
Input voltage	230Vac	th
Input AC frequency	50Hz	
Output voltage	5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V)	an
Output current	4.5/4.32/4.0/3.0/2.4/2/1.5/0.75(A)	S
Output power	22.5W for 5.0V, 32.4W for 7.0V, 36.0W for other	7.0
Average active efficiency	>83.6% for 5V, >87.4% for other	S
Efficiency at low load (10 %)	>82.4%(typ)	Р
No-load power consumption	<0.10W	_





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

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)	D
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	d
Efficiency at low load (10 %)	>85.0%(typ)	Se
No-load power consumption	<0.21W	ori
0		th
Model identifier	GSM 90A/B(12/15/19/24/48)-P1M	al

Average active efficiency	>85.07% for 5V, > 88% for other	
Efficiency at low load (10 %)	>85.0%(typ)	We
No-load power consumption	<0.21W	an
0	=======================================	Me
Model identifier	GSM 90A/B (12/15/19/24/48)-P1M	f I
Input voltage	230Vac	0
Input AC frequency	50Hz	te
Output voltage	12.0/15.0/19.0/24.0/48.0 (V)	ib
Output current	6.67/6.0/4.74/3.75/1.87(A)	str
Output power	80.0W for 12.0V, 90.0W for other	ë
Average active efficiency	>88.0 %	
Efficiency at low load (10 %)	>87.1 %(typ)	
No-load power consumption	<0.21W Puls	ar

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Model identifier	GSM120A/B(12/15/20/24/48)-R7B	ed
Input voltage	230Vac	TS.
Input AC frequency	50Hz	101
Output voltage	12.0/15.0/20.0/24.0/48.0 (V)	ut
Output current	8.5/7.0/6.0/5.0/2.5(A)	e l
Output power	102.0W for 12.0V, 105.0W for 15.0V, 120.0W for other	D
Average active efficiency	>88.0 %	
Efficiency at low load (10 %)	>86.3 %(typ)	Sal
No-load power consumption	<0.21W	Ħ
	•	

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

	No-load power consumption	<0.21W	O
3	Б		S
an	Model identifier	GSM220A/B(12/15/20/24/48)-R7B	Or
Me	Input voltage	230Vac	th
of I	Input AC frequency	50Hz	al
or o	Output voltage	12.0/15.0/20.0/24.0/48.0 (V)	a
uto	Output current	15.0/13.4/11.0/9.2/4.6(A)	S
i	Output power	180.0W for 12.0V, 201.0W for 15.0V,	<u>, </u>
Str	pr	220.0W for 20.0V, 221.0W for other	S
0	Average active efficiency	>88.0 %	م
	Efficiency at low load (10 %)	>84.6 %(typ)	
	No-load power consumption	<0.21W	
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Average active efficiency

Efficiency at low load (10 %)

No-load power consumption

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Model identifier	OWA-60E-12/15/20/24/30/36/42/48/54	
Input voltage	230Vac	S
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)	S
Output power	60.0W for 12.0/15.0/20.0/24.0/30.0/48.0(V),	2
<u> </u>	60.12W for 36.0V, 63.0W for 42.0V, 60.48W for 54.0V	S
Average active efficiency	>88.0 %	531
Efficiency at low load (10 %)	>80.0 %(typ)	
No-load power consumption	<0.21W	T
	Input voltage Input AC frequency Output voltage Output current Output power Average active efficiency Efficiency at low load (10 %)	Input voltage 230Vac 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)

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
0	
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

>88.0 %

<0.21W

>82.5 %(typ)

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Model identifier	OWA-200E-(12/20/24/36/42/48/54)	0
Input voltage	230Vac	S
Input AC frequency	50Hz	10
Output voltage	12.0/20.0/24.0/36.0/42.0/48.0/54.0(V)	utl
Output current	15.0/10.0/8.3/5.55/4.75/4.17/3.71(A)	פר
Output power	180W for 12.0V, 200W for 20V, 199W for other	a
Average active efficiency	>91% for 12V, >92.5% for other	-53
Efficiency at low load (10 %)	>87.5%(typ)	sal
No-load power consumption	<0.15W	
5	<u> </u>	

Model identifier	GS06E/U-(1/11/2/3/4/5/6/8)	
Input voltage	230Vac	7
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)	D
Output power	6W	
Average active efficiency	>78.88 %	
Efficiency at low load (10 %)	>73.0 %(typ)	
No-load power consumption	<0.10W	d
7		9

No-load power consumption	<0.10W	0
p		Se
Model identifier	GS15-(1/1-1/2/3/4/5/6/8)	0
Input voltage	230Vac	th
Input AC frequency	50Hz	al
Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)	an
Output current	2.4/1.6/1.66/1.25/1.0/0.83/0.625/0.31 (A)	<u>.0</u>
Output power	12W for 5.0/7.5V, 15.0W for other	ä
Average active efficiency	>82.96% for 5/7.5V, >84.13% for other	5
Efficiency at low load (10 %)	>79.0 %(typ)	٩
No-load power consumption	<0.10W	





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ell	Model identifier	GP25A/B(13A/13D/14E/58F)-R1B	5
M	Input voltage	230Vac)
ar	Input AC frequency	50Hz	
of Me	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)	777
Or (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)	3
ribut	Output power	28.5W for 13A,28.0W for 13D,29.0W for 14E, 37.77W for 58F	2
St	Average active efficiency	>80% for 13A \ 13D \ > 80.5% for 14E \ > 85% for 58F	1
0	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
	20
S	
	<u>0</u>
product	<u>Sa</u>
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Model identifier	GC30B/E/U-(0/1/11/2/4/5/6)P1J	70
Input voltage	230Vac	S
Input AC frequency	50Hz	0
Output voltage	4.2/5.6/7.2/8.4/14.3/16.8/28.6(V)	7
Output current	4.0/3.99/3.0/3.0/2.09/1.6/1.04(A)	6
Output power	16.8W for 4.2V,22.38W for 5.6V,21.6W for 7.2V,	Ö
<u>3</u>	25.2W for 8.4V,30.0W for 14.3V,27.0W for 16.8V,	<u>()</u>
0	30.0W for 28.6V	200
Average active efficiency	>55% for 4.2V · > 70% for other	
Efficiency at low load (10 %)	>52% for 4.2V · > 67% for other (typ)	Д
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	D
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 %	d
Efficiency at low load (10 %)	>75.0 %(typ)	Se
No-load power consumption	<0.10W	ori
0		th
	C C 1 40 /5 /0 /40 /45 /40 /0 / / / 40 /	

Model identifier	SGA18-(5/9/12/15/18/24/48)	al
Input voltage	230Vac	an
Input AC frequency	50Hz	is ÷
Output voltage	5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V)	a i
Output current	3.0/2.0/1.5/1.2/1.0/0.75/0.375 (A)	2
Output power	15W for 5.0V, 18.0W for other	P.
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	人 Pulsai
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Model identifier	SGA25-(5/7.5/9/12/15/18/24/48)	0
Input voltage	230Vac	S
Input AC frequency	50Hz	101
Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)	utl
Output current	4.0/2.93/2.77/2.08/1.66/1.38/1.04/0.52 (A)	6
Output power	20W for 5.0V, 22W for 7.5V, 25.0W for other	a
Average active efficiency	>85.4% for 5V, >86.35% for other	.00
Efficiency at low load (10 %)	>81.0 %(typ)	Sal
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)	D
Output power	25W for 5.0V, 40.0W for other	A.
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	d
		U

	No-load power consumption	<0.10W	Ō
8	Б		S
an	Model identifier	SGA60-(5/7.5/9/12/15/18/24/48)	
V	Input voltage	230Vac	
J-	Input AC frequency	50Hz	B
7	Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)	
H	Output current	6.0/6.0/5.5/5.0/4.0/3.33/2.5/1.25 (A)	()
9	Output power	30W for 5.0V, 45W for 7.5V, 50W for 9.0V,	TO TO
Str	br	60.0W for other	2
5	Average active efficiency	>86.95% for 5V, >87.73% for 7.5V, >89.0% for other	I
	Efficiency at low load (10 %)	>84.0 %(typ)	
	No-load power consumption	<0.21W	
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Model identifier	GE12I-(5/7.5/9/12/15/18/24)	ed
Input voltage	230Vac	S
Input AC frequency	50Hz	10
Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0 (V)	utl
Output current	2.0/1.33/1.33/1.0/0.8/0.83/0.625 (A)	n a
Output power	10W for 5.0/7.5V, 12W for 9/12/15V, 15W for other	G
Average active efficiency	>81.95% for 5.0/7.5V, >82.96% for 9/12/15V,	- 5
LOC	>84.13% for other	20
Efficiency at low load (10 %)	>72.1 %(typ)	Ē
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)	0
No-load power consumption	<0.10W	Se
		O
Model identifier	GE24I-(5/7.5/9/12/15/18/24/48)	t
Input voltage	230Vac	100
Input AC frequency	50Hz	an
Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)	S
Output current	3.0/2.0/2.22/2.0/1.6/1.33/1.0/0.5 (A)	ar
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 oth	er
Efficiency at low load (10 %)	>75.8 %(typ)	



No-load power consumption

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< 0.10W



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GE30I-(12/15/18/24)	0
230Vac	S
50Hz	0
12.0/15.0/18.0/24.0 (V)	T,
2.5/2.0/1.66/1.25 (A)	0
30W	ā
>86.95%	.00
>83.7 %(typ)	ā
<0.10W	Ë
	230Vac 50Hz 12.0/15.0/18.0/24.0 (V) 2.5/2.0/1.66/1.25 (A) 30W >86.95% >83.7 %(typ)

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

	No-load power consumption	<0.30W
3	Б	S
an	Model identifier	GE40I-(5/7.5/9/12/15/18/24/36/48)
Me	Input voltage	230Vac
of I	Input AC frequency	50Hz
Jr (Output voltage	5.0/7.5/9.0/12.0/15.0/18.0/24.0/36.0/48.0 (V)
uto	Output current	4.0/2.66/3.3/3.3/2.7/2.2/1.67/1.00/0.83 (A)
ibi	Output power	20W for 5.0/7.5V, 30W for 9.0V, 40W for other
Str	Average active efficiency	>85.47% for 5.0/7.5V, >86.92% for 9.0V,
d		>87.58% for other
	Efficiency at low load (10 %)	>77.3 %(typ)
	No-load power consumption	<0.10W
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GSM12E/GEM12I-(5/7.5/9/12/15/18/24/48)	ed
230Vac	.5
50Hz	10
5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V)	utl
1.6/1.33/1.0/0.8/0.66/0.5/0.25 (A)	n a
12W	9
>82.96%	-07
>72.96%(typ)	Sa
<0.10W	
	230Vac 50Hz 5.0/7.5/9.0/12.0/15.0/18.0/24.0/48.0 (V) 1.6/1.33/1.0/0.8/0.66/0.5/0.25 (A) 12W >82.96% >72.96%(typ)

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)	D
Output power	15W for 5.0V, 18.0W for other	A.
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	d
	.	0

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





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Model identifier	GEM40I-(5/9/12/15/18/24/48)	Pod
Input voltage	230Vac	T.S.
Input AC frequency	50Hz	101
Output voltage	5.0/9.0/12.0/15.0/18.0/24.0/48.0 (V)	ut
Output current	5.0/4.0/3.33/2.66/2.22/1.66/0.83 (A)	פנ
Output power	25W for 5.0V, 36W for 9.0V, 40.0W for other	a
Average active efficiency	>86.35% for 5V, >87.40% for 9.0V, >87.59% for other	- 03
Efficiency at low load (10 %)	>85.0 %(typ)	sal
No-load power consumption	<0.10W	in (

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
To the second se	
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

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Protective current (input)

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Model identifier	NGE18E/U/I(05/09/12/15/18/24)-P1J	bed =
Input voltage	230Vac	is A
Input AC frequency	50Hz	101
Output voltage	5.0/9.0/12.0/15.0/18.0/24.0(V)	utl
Output current	3.0/2.0/1.5/1.2/1.0/0.75(A)	7 9
Output power	15W for 5V output,18W for other	a
Average active efficiency	>82% for 5V,>87% for other	.5
Efficiency at low load (10 %)	>78% for 5V,>79.5% for other	Sal
No-load power consumption	<0.075W	TID.
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)	Q
Output current	4.0/3.33/2.5/2.0/1.66/1.25/0.63(A)	4
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	O
No-load power consumption	<0.075W	Se
Protective current (input)	3.15A	0
9		ţ

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 $\overline{}$
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 _{ts} in Poland www.pulsa

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Model identifier	NGE65E/U/I(05/09/12/15/18/24/48)-P1J
Input voltage	230Vac - 2
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	(1
3		9
Input voltage	230Vac	
Input AC frequency	50Hz	Q
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%	O
Efficiency at low load (10 %)	>86% for 12V,>88% for other	Se
No-load power consumption	<0.1W	Oľ
Protective current (input)	3.15A	ıth

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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%forC1:20*0.5
No-load power consumption	<0.3W
Protective current (input)	3.15A

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Manufacturer:

MEAN WELL ENTERPRISES Co., LTD. No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891, Taiwan Tel: +886-2-2299-6100

Web: www.meanwell.com

Branch Office:

China

MEAN WELL (GUANGZHOU) ENTERPRISES Co., LTD. No.11, Jingu South Road, Huadong Town, Huadu Distric, Guangzhou, Gungzhou, China

Tel: +86-20-3773-7100

Web: www.meanwell.com.cn

U.S.A.

MEAN WELL USA, INC. 44030 Fremont Blvd., Fremont, CA 94538, U.S.A. Tel: +1-510-683-8886

Web: www.meanwellusa.com

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China

SUZHOU MEAN WELL TECHNOLOGY Co., LTD. No.269 Changping Rd., Huangdai Town, Xiangcheng District Suzhou, Jiangsu Province, China Post Code: 215152

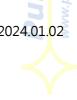
Tel: +86-512-6508-8600 Web: www.meanwell.cc

Europe

MEAN WELL EUROPE B.V. Langs de Werf 8, 1185XT Amstelveen, The Netherlands

Tel: +31-20-758-6000 Web: www.meanwell.eu an aut Julsar is





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No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891, Taiwan (R.O.C.)

Tel:+886-2-2299-6100 Fax:+886-2-2299-6200 E-mail:info@meanwell.com http://www.meanwell.com

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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 11364-2014, 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

		Hazardous Substances				
Part Name	Lead	Mercury	Cadmium	Hexavalent	Polybrominated	Polybrominated
				chromium	biphenyls	diphenyl ethers
	(Pb)	(Hg)	(Cd)	(Cr^{6+})	(PBB)	(PBDE)
PCB and its components	X	O	X	О	0	O
Metal structure parts	X	O	O	О	0	O
Plastic structure parts	О	O	O	O	0	O
Accessories	O	О	O	О	0	0
Cables	X	O	O	O	0	О

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.



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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	Sar
GB 30981-2020	Limit of harmful substances of industrial protective coatings	ar
GB 33372-2020	Limits for volatile organic compounds content in adhesive	Julg
GB 38507-2020	Limits for volatile organic compounds (VOCs) In printing ink	
GB 38508-2020	Limits for volatile organic compounds content in cleaning agents	S

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Tel: +886-2-2299-6100 Fax: +886-2-2299-6200 E-mail:info@meanwell.com http://www.meanwell.com

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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) 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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