

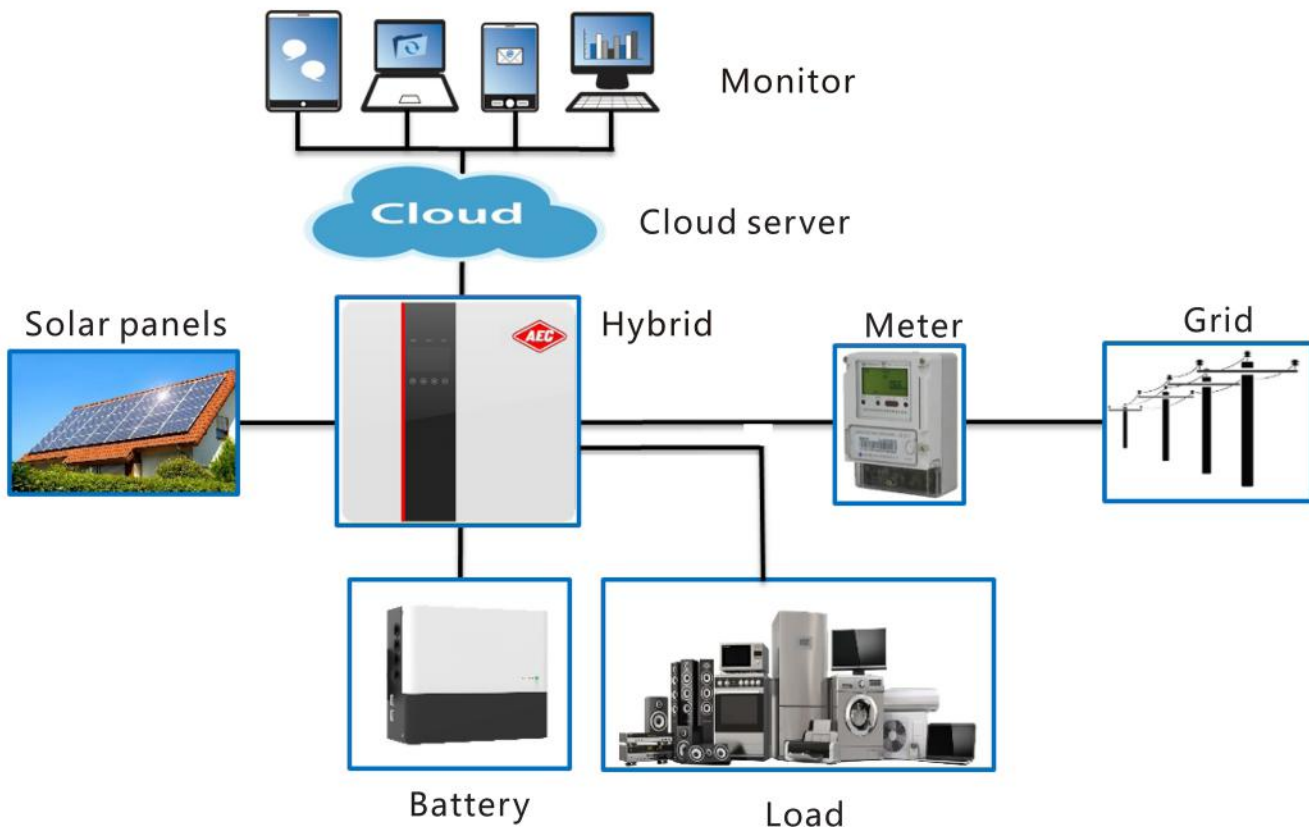
## Features



Selfnergy-M 3680~5000

- Fashion, light and smart
- 48V battery ,full rated discharge and charge capacity
- Optimal battery charging and discharging scheme to extend battery life
- Battery inversely connection protection
- IP65 , Natural cooling, Wall-mounted
- Wide input voltage range
- Anti-reverse supported, DRM supported

## System Block Diagram



Datasheet	Selfnergy-M 3680	Selfnergy-M 4600	Selfnergy-M 5000
<b>DC Input</b>			
Max. Input Power	4600W	5600W	6000W
Start-up Voltage	125V	125V	125V
Max. PV Voltage	550V	550V	550V
PV Voltage Range	125V-550V	125V-550V	125V-550V
MPPT Range/Nominal	125V-550V /360V	125V-550V /360V	125V-550V /360V
Max. Input Current	14A/14A	14A/14A	14A/14A
MPPT Tracker/Strings	2/1	2/1	2/1
<b>AC Output</b>			
Rated Power W/VA	3680W/3680VA	4600W/4600VA	5000W/5000VA
Max. Output Current	17A	21A	23A
Nominal Voltage/Range	230V /180Vac~280Vac	230V /180Vac~280Vac	230V /180Vac~280Vac
Frequency	50 /60Hz	50 /60Hz	50 /60Hz
PF	1(0.8lagging-0.8leading)	1(0.8lagging-0.8leading)	1(0.8lagging-0.8leading)
THDI	<3%	<3%	<3%
AC Output Topology	L+N+PE	L+N+PE	L+N+PE
<b>Battery</b>			
Battery Voltage Range	42~59V	42~59V	42~59V
Max. Charging Voltage	58V	58V	58V
Charge/Discharge Current	110A/110A	110A/110A	110A/110A
Battery Type	lithium /Lead-acid	lithium /Lead-acid	lithium /Lead-acid
Deep Of Discharging	80%DOD/50%DOD	80%DOD/50%DOD	80%DOD/50%DOD
Capacity Of Battery	3~12kWh	3~12kWh	3~12kWh
Communication Interface	CAN/RS485	CAN/RS485	CAN/RS485
<b>EPS Output</b>			
Rated Power W/VA	3600W/3600VA	4000W/4000VA	5000W/5000VA
Rated Voltage	230Vac	230Vac	230Vac
Rated Current	17A	21A	23A
Rated Frequency	50Hz	50Hz	50Hz
Automatic Switchover Time	<20ms	<20ms	<20ms
THDU	<2%	<2%	<2%
Parallel Operation	yes	yes	yes
<b>General Data</b>			
Battery Chage/Dischage	95%	95%	95%
DC Max. Efficiency	97.6%	97.6%	97.6%
Euro Efficiency	97%	97%	97%
MPPT Efficiency	99.9%	99.9%	99.9%
Protection class	IP65	IP65	IP65
Noise Emission (Typical)	<35dB	<35dB	<35dB
Operation Temperature	- 25 ~ +60°C	- 25 ~ +60°C	- 25 ~ +60°C
Cooling	Natural	Natural	Natural
Relative Humidity	0 ~95% (non-condensing)	0 ~95% (non-condensing)	0 ~95% (non-condensing)
Altitude	2000m	2000m	2000m
Dimensions (W/D/H) mm	550/200/515mm	550/200/515mm	550/200/515mm
Weight	28kg	30kg	30kg
Inverter Topology	transformerless	transformerless	transformerless
Self-Consumption	<3W	<3W	<3W
<b>Features</b>			
Display	LCD	LCD	LCD
Interface: RS485/Wifi/LAN /CAN/DRM	yes /opt/opt /yes/yes	yes /opt/opt /yes/yes	yes /opt/opt /yes/yes
<b>Certificates</b>		TUV, SAA, G83	

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