






SIGENERGY - BATTERY STORAGE



FEATURES

-  Multi-layer full battery safety protection
-  Visible battery status on mySigen App
-  Quick connectors for fast installation
-  AI enablement, optimized battery cycle life
-  Parallel connections for flexible battery mix

10-year warranty

SPECIFICATIONS

SIGENSTOR BAT

5.0

8.0

PERFORMANCE SPECIFICATION

Battery type

LiFePO4

Total energy capacity (kWh)

5.38

8.06

Usable energy capacity (kWh)

5.2

7.8

Battery modules voltage range (single phase system)

300 - 600V

Battery modules voltage range (three phase system)

600 - 900V

Max. charge / discharge power

2500W

4000W

Peak charge / discharge power (10 seconds)

3750W

6000W

SPECIFICATIONS

SIGENSTOR BAT

5.0

8.0

GENERAL DATA

Weight (kg)

55

70

Dimensions (w / H / D) mm

767 / 270 / 260

Storage temperature range °C

-25 - 60

Operating temperature range °C

-20 - 55

Relative humidity range

5%- 95%

Max. operating altitude (m)

4000

Cooling

Natural convection

System ingress protection rating

IP66

Installation method

Floor standing/ Wall-mounted

STANDARD COMPLIANCE

Standard

IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040

Signen Energy Controller 3.0-6.0 kW Single Phase

SIGENSTOR EC

3.0 SP

3.6 SP

4.0 SP

4.6 SP

5.0 SP

6.0 SP

DC INPUT (FROM PV)

Max. PV power (W)

6000

7360

8000

9200

10000

12000

Max. DC input voltage (V)

600

Nominal DC input voltage (V)

350

Start-up voltage (V)

100

MPPT voltage range (V)

50~550

Number of MPP. trackers

2

Number of PV strings per MPPT

1

Max. input current per MPPT (A)

16

Max. short-circuit current per MPPT (A)

20

AC OUTPUT (ON-GRID)

Nominal output power (W)

3000

3680

4000

4600

5000

6000

Max. output apparent power (VA)

3300

3680

4400

5000

5500

6600

Nominal output current (A)

13.6

16.0

18.2

20.9

22.7

27.3

Max. output current (A)

15.0

16.0

20.0

22.7

25.0

30.0

Nominal output voltage (V)

220/230/240

Nominal grid frequency (Hz)

50/60

SPECIFICATIONS

Sigen Energy Controller 3.0-6.0 kW Single Phase

SIGENSTOR EC

3.0 SP

3.6 SP

4.0 SP

4.6 SP

5.0 SP

6.0 SP

AC OUTPUT (ON-GRID)

Power factor

0.8 leading ~ 0.8 lagging

Total current harmonic distortion

THDI < 2%

EFFICIENCY

Max. efficiency

98.0%

European efficiency

97.0%

97.1%

97.2%

97.3%

97.4%

97.4%

AC OUTPUT (BACKUP)

Peak output power (10 seconds) (W)

4500

5520

6000

6900

7500

9000

Nominal output voltage (V)

220/230/ 240

Nominal output frequency (Hz)

50/60

Power factor

0.8 leading ~ 0.8 lagging

Total voltage harmonic distortion

THDV < 2%

Disruption time of backup switch (ms)

0

BATTERY CONNECTION

Battery module models

SigenStor BAT 5.0 / 8.0

Number of modules per controller (pcs)

1~6

Battery module voltage range (V)

300~600

PROTECTION

Safety protection feature

DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.

GENERAL DATA

Dimensions (W/H/D) mm

700/300/245

Weight (kg)

18

Storage temperature range (°C)

-40~70

Operating temperature range (°C)

-30~60

Relative humidity range

0%~95%

Max. operating altitude (m)

4000

Cooling

Natural convection

System ingress protection rating

IP66

Communication

WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)

STANDARD COMPLIANCE

Standard ²

IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2

SPECIFICATIONS

Sigen Energy Controller 5.0-25.0 kW Three Phase

SIGENSTOR EC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	
DC INPUT (FROM PV)										
Max. PV power (W)	8000	9600	12800	16000	19200	24000	27200	32000	40000	
Max. DC input voltage (V)	1100									
Nominal DC input voltage (V)	600									
Start-up voltage (V)	180									
MPPT voltage range (V)	160~1000									
Number of MPP. trackers	2			3			4			
Number of PV strings per MPPT	1									
Max. input current per MPPT (A)	16									
Max. short-circuit current per MPPT (A)	20									
AC OUTPUT (ON-GRID)										
Nominal output power (W)	5000	6000	8000	10000	12000	15000	17000	20000	25000	
Max. output apparent power (VA)	5500	6600	8800	11000	13200	16500	18700	22000	27500	
Nominal output current (A)	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	
Max. output current (A)	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	
Nominal output voltage (V)	380/400									
Nominal grid frequency (Hz)	50/60									
Power factor	0.8 leading ~ 0.8 lagging									
Total current harmonic distortion	THDI < 2%									
EFFICIENCY										
Max. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
AC OUTPUT (BACKUP)										
Peak output power (10 seconds) (W)	7500	9000	12000	15000	18000	22500	25500	30000	30000	
Nominal output voltage (V)	380/400									
Nominal output frequency (Hz)	50/60									
Power factor	0.8 leading ~ 0.8 lagging									
Total voltage harmonic distortion	THDV < 2%									
Disruption time of backup switch (ms)	0									

SPECIFICATIONS

Sigen Energy Controller 5.0-25.0 kW Three Phase

SIGENSTOR EC

5.0 TP

6.0 TP

8.0 TP

10.0 TP

12.0 TP

15.0 TP

17.0 TP

20.0 TP

25.0 TP

BATTERY CONNECTION

Battery module models

SigenStor BAT 5.0/ 8.0

Number of modules per controller (pcs)

1~6

Battery module voltage range (V)

600~900

PROTECTION

Safety protection feature

DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection.

GENERAL DATA

Dimensions (W/H/D) mm

700/300/260

Weight (kg)

36

Storage temperature range (°C)

-40~70

Operating temperature range (°C)

-30~60

Relative humidity range

0%~95%

Max. operating altitude (m)

4000

Cooling

Smart air cooling

System ingress protection rating

IP66

Communication

WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)

STANDARD COMPLIANCE

Standard ²

IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-2

