

SIJENERJY

## Sigen Energy Controller

5.0 - 25.0 kW Three Phase

- EMS inside for precise control
- DC ground-fault protection
- Multi-source black start
- On & off-grid compatibility
- DC/AC ratio up to 1.6
- IP66 system protection rating

## 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	Uni
DC Input (from PV)										
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W
Max. DC input voltage					1100					V
Nominal DC input voltage					600					V
Start-up voltage					180					V
/PPT voltage range					160 ~ 1000	)				V
lumber of MPP. trackers		2			3			4		
Number of PV strings per MPPT					1					
/lax. input current per MPPT					16					А
/lax. short-circuit current per MPPT					20					А
AC Output (on-grid)										
Iominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W
lax. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Iominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A
lax. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A
ominal output voltage					380 / 400	)				V
lominal grid frequency	50 / 60									
ower factor	0.8 leading ~ 0.8 lagging									
otal current harmonic distortion	THDi < 2%									
fficiency										
1ax. efficiency	98.1%	98.2%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	
uropean efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%	97.9%	97.9%	98.0%	
AC Output (backup)										
eak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
lominal output voltage	380 / 400								V	
Iominal output frequency	50 / 60									Hz
ower factor	0.8 leading ~ 0.8 lagging									
otal voltage harmonic distortion	THDv < 2%									
Disruption time of backup switch <sup>1</sup>	0									m
Battery Connection										
attery module models	SigenStor BAT 5.0 / 8.0									
lumber of modules per controller	1~6									рс
attery module voltage range	600 ~ 900									V
Protection										
afety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protec Insulation monitoring, Residual current monitoring, Type II DC/AC surge protection Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection									
General Data										
imensions (W / H / D)				70	0 / 300 / 2	260				mr
Veight	36									kg
torage temperature range	-40 ~ 70									°C
perating temperature range	-30 ~ 60									°C
elative humidity range	0% ~ 95%									
fax. operating altitude		4000								
Cooling				Sma	art air coa	oling				m
ystem ingress protection rating	IP66									
	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)									
Standard Compliance					,			-,,		
		IEC/EN 6		/EN 62100	-2 IEC/EN	61000-6-		1000-6-2		
		IEU/EN 02	LIUSTI, IEC	1 EIN 02109	-z, iec/en	01000-0-	I, IEU/EN C	1000-6-2		

1. This refers to the load-side disruption time, to achieve this functionality Sigen Energy Gateway needs to be used together with Sigen Energy Controller and Sigen Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the Sigen Energy Controller is higher than the total power of the home loads.

2. For all standards refer to the certificates category in the Sigenergy website.

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