

SIJENERJY

Sigen Energy Controller

5.0 - 30.0 kW Three Phase

- EMS inside for precise control
 On & off-grid compatibility
- Up to 4 MPP. trackers
- Multi-source black start
- DC/AC ratio up to 1.6
- IP66 system protection rating

Sigen Energy Controller 5.0-30.0 kW Three Phase Australia

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SigenStor EC	5.0 TP	10.0 TP	15.0 TP	20.0 TP	25.0 TP	30.0 TP	Uni
DC Input (from PV)							
Max. PV power	8000	16000	24000	32000	40000	48000	W
/ax. DC input voltage			11	00			V
Iominal DC input voltage	600						V
Start-up voltage	180						V
MPPT voltage range	160 ~ 1000						V
Number of MPP. trackers	2	3	3	4	4	4	
Number of PV strings per MPPT				1			
Max. input current per MPPT	16						A
Max. short-circuit current per MPPT	20						A
AC Output (on-grid)							
Nominal output power	5000	9999	15000	20000	25000	29900	W
Max. output apparent power	5500	9999	15000	22000	27500	29900	VA
Nominal output current	7.6	14.4	21.7	30.4	38.0	43.3	A
Max. output current	8.4	14.4	21.7	33.4	41.8	43.3	A
Nominal output voltage	380 / 400						V
Jominal grid frequency	50 / 60						
Power factor	0.8 leading ~ 0.8 lagging						
otal current harmonic distortion							
				2.70			
Efficiency							
Max. efficiency	98.1%	98.3%	98.3%	98.3%	98.3%	98.4%	
uropean efficiency	96.1%	97.5%	97.9%	97.9%	98.0%	98.0%	
AC Output (backup)							
Iominal output power	5000	10000	15000	20000	25000	30000	W
lax. output apparent power	5500	11000	16500	22000	27500	33000	W
Peak output power (10 seconds)	7500	15000	22500	30000	30000	36000	W
Nominal output current	7.6	15.2	22.8	30.4	38.0	45.6	A
Max. output current	8.4	16.7	25.1	33.4	41.8	50.1	A
Peak output current (10 seconds)	11.4	22.8	34.2	45.6	45.6	54.7	A
Iominal output voltage	380 / 400						V
Nominal output frequency	50 / 60						 H:
Power factor	0.8 leading ~ 0.8 lagging						
otal voltage harmonic distortion							
Disruption time of backup switch ¹	0						m
				0			
Battery Connection							
Battery module models Number of modules per controller	SigenStor BAT 5.0 / 8.0						
Battery module voltage range	600 ~ 900						pc v
• • •			000				v
Protection							
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter ² , AC overcurrent/overvoltage/short-circuit protection.						
sciery protection reducite	Arcituu			otection, Anti-i			JUON.
General Data		11		,	01		
Dimensions (W / H / D)			700/0	00/260			
	26	26		260	26	20	k
Veight	36	36	36	36	36	38	kc
Storage temperature range				~ 70			°C
Operating temperature range	-30 ~ 60						°C
Relative humidity range	0% ~ 95%						
lax. operating altitude	4000						
Cooling	Smart air cooling						
System ingress protection rating	IP66						
Communication	W	LAN / Fast Ethe	ernet / RS485 /	Sigen Comm	Mod (4G/3G/2	2G)	
Standard Compliance							
Standard ³				N 61000-6-1, IEC	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. This is an optional feature only supported in certain models, please contact Sigenergy for more information.

3. For all standards refer to the certificates category on the Sigenergy website.