

SIJENERJY

## Sigen Energy Controller

5.0 - 12.0kW Single Phase

- EMS inside for precise control
  On & off-grid compatibility
- Up to 4 MPP. trackers
- Multi-source black start
- DC/AC ratio up to 2.0
- IP66 system protection rating

## Sigen Energy Controller 5.0-12.0 kW Single Phase Australia

SigenStor EC	5.0 SP	6.0 SP	8.0 SP	10.0 SP	12.0 SP	Unit
DC Input (from PV)						
Max. PV power	10000	12000	16000	20000	24000	W
Max. DC input voltage			600			V
Iominal DC input voltage			350			V
tart-up voltage			100			V
IPPT voltage range			50 ~ 550			V
Number of MPP. trackers	2	2	3	4	4	
lumber of PV strings per MPPT			1			
Max. input current per MPPT			16			A
Nax. short-circuit current per MPPT			20			A
AC Output (on-grid)						
Iominal output power	4999	6000	8000	9999	12000	W
/ax. output apparent power	4999	6600	8800	9999	12000	VA
Iominal output current	21.7	27.3	36.4	43.4	54.6	A
lax. output current	21.7	30.0	40.0	43.4	54.6	A
Iominal output voltage	220 / 23	30 / 240		220 / 230		V
lominal grid frequency			50 / 60			Hz
Power factor	0.8 leading ~ 0.8 lagging					
otal current harmonic distortion						
Efficiency						
Max. efficiency	98.0%	98.0%	97.6%	97.6%	97.6%	
European efficiency	97.4%	97.4%	97.0%	97.0%	97.0%	
AC Output (backup)	07.770	07.70	07.070	07.070	07.070	
Iominal output power	5000	6000	8000	10000	12000	W
Aax. output apparent power	5500	6600	8800	11000	12000	W
Peak output apparent power Peak output power (10 seconds)	7500	9000	12000	15000	18000	W
	22.7	27.3	36.4	45.5	54.6	
Nominal output current		30.0			60.0	A
Max. output current	25.0		40.0	50.0		A
Peak output current (10 seconds)	34.1	40.9	54.6	68.2	81.8	A
Nominal output voltage	220 / 2	30 / 240	50/00	220 / 230		V
Nominal output frequency			50 / 60			Hz
Power factor		0.8	leading ~ 0.8 lage	ging		
otal voltage harmonic distortion			THDv < 2%			
Disruption time of backup switch <sup>1</sup>			0			m
Battery Connection						
Battery module models	SigenStor BAT 5.0 / 8.0					
Number of modules per controller	1~6					рс
Battery module voltage range			300 ~ 600			V
Protection						
Safety protection feature	DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Arc fault circuit interrupter <sup>2</sup> , AC overcurrent/overvoltage/short-circuit protection. Type II DC/AC surge protection, Anti-islanding protection					
General Data		rype ii DC/AC s	arge protection, /	anu-isianaing pro	DIECTION	
	- 1					
Dimensions (W / H / D)	700 / 300 / 245		700 / 300 / 260			mr
Veight	1	8		36		kg
Storage temperature range			-40 ~ 70			°C
Operating temperature range	-30 ~ 60					°C
Relative humidity range	0% ~ 95%					
/lax. operating altitude			4000			m
Cooling	Natural c	onvection		Smart air cooling		
System ingress protection rating	IP66					
Communication	WLAN	/ Fast Ethernet /	RS485 / Sigen C	ommMod (4G/3G	9/2G)	
Standard Consultance						
Standard Compliance						

 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.

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