

# Sigen Energy Controller 5.0–12.0 kW Three Phase Low Voltage

SigenStor EC <sup>1</sup>	5.0 TPLV	6.0 TPLV	8.0 TPLV	10.0 TPLV	12.0 TPLV	Units
<b>DC Input (from PV)</b>						
Max. PV power	8000	9600	12800	16000	19200	W
Max. DC input voltage			600			V
Nominal DC input voltage			360			V
Start-up voltage			100			V
MPPT voltage range			50 ~ 550			V
Number of MPP. trackers	2	2	3	3	4	
Number of PV strings per MPPT			1			
Max. input current per MPPT			16			A
Max. short-circuit current per MPPT			20			A
<b>AC Output (on-grid)</b>						
Nominal output power	5000	6000	8000	10000	12000	W
Max. output apparent power	5500	6600	8800	11000	13200	VA
Nominal output current	13.2	15.8	21.0	26.2	31.5	A
Max. output current	14.5	17.4	23.1	28.9	34.7	A
Nominal output voltage			220 / 230			V
Nominal grid frequency			50 / 60			Hz
Power factor			0.8 leading ~ 0.8 lagging			
Total current harmonic distortion			THDi < 2%			
<b>Efficiency</b>						
Max. efficiency			98%			
European efficiency	97.3%	97.5%	97.7%	97.8%	97.8%	
<b>Battery Connection</b>						
Battery module models	SigenStor BAT 5.0 / 8.0					
Number of modules per controller	1 ~ 6					
Battery module voltage range	300 ~ 600					
<b>Protection</b>						
Safety protection feature	DC ground fault protection, Arc fault circuit interrupter, DC reverse polarity protection, Anti-islanding protection, AC overcurrent/overvoltage/short-circuit protection, Insulation monitoring, Residual current monitoring, DC/AC surge protection					
<b>General Data</b>						
Dimensions (W / H / D)	700 / 300 / 260					
Weight	36					
Storage temperature range	-40 ~ 70					
Operating temperature range	-30 ~ 60					
Relative humidity range	0% ~ 95%					
Max. operating altitude	4000					
Cooling	Smart air cooling					
System ingress protection rating	IP66					
Communication	WLAN / Fast Ethernet / RS485 / Sigen CommMod (4G/3G/2G)					

1. Please contact Sigenenergy or local distributors for specific countries where sales are available.