



AEI-5-25KW 3 Phase Series

AEI-5KW/ AEI-6KW / AEI-8KW/ AEI-10KW/
 AEI-12KW/ AEI-15KW/ AEI-17KW/
 AEI-20KW/ AEI-25KW

- Battery ready, future proof
- DC ground-fault protection
- DC/AC ratio up to 1.6
- Up to 4 MPP trackers
- IP66 protection rating



Specifications

Model	AEI-5KW	AEI-6KW	AEI-8KW	AEI-10KW	AEI-12KW	AEI-15KW	AEI-17KW	AEI-20KW	AEI-25KW	Units
DC Input										
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
MPPT voltage range	160 ~ 1000									V
Number of MPP. trackers	2		3			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	6000	8000	10000	12000	15000	17000	20000	25000	W
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A
Nominal output voltage	380 / 400									V
Nominal grid frequency	50 / 60									Hz
Power factor	0.8 leading ~0.8 lagging									
Total current harmonic distortion	THDi < 2%									
Efficiency										
Max. efficiency	98.1%	98.2%	98.3%							
European efficiency	96.1%	96.6%	97.1%	97.5%	97.7%	97.9%		98.0%		
Additional Features										
Compatible battery module	SigenStor BAT 5.0 / 8.0									
Number of modules per controller	1 ~ 6 pcs									
Battery module voltage range	600~900									V
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W
Nominal output voltage	380 / 400									V
Protection										
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									
General Data										
Dimensions (w / H / D)	700 300 283 mm									
Weight	36 kg									
Storage temperature range	-40 ~ 70 °C									
Operating temperature range	-30 ~ 60 °C									
Relative humidity range	0% ~ 95%									
Max. operating altitude	4000 m									
Cooling	Smart air cooling									
Ingress protection rating	IP66									
Installation method	Wall-mounted									
Communication	WLAN / Fast Ethernet/ RS485 / Sigen CommMod (4G/3G/2G)									
General Data										
Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2									

* Product specifications are subject to change without further notice