Technical Datasheet		ASW 80K-LT	ASW 100K-LT	ASW 110K-LT
Input (DC)	Max. PV array power	120000 Wp STC	150000 Wp STC	165000 Wp STC
	Max. input voltage	1100 V		
	MPP voltage range / rated input voltage	200V - 1000 V / 630 V		
	Min. input voltage	200 V		
	Initial. feed-in voltage	250 V		
	Max. operating input current	32 A		
	Max. short circuit current	48 A		
	No. of independent MPPT inputs / strings per MPPT input	8/2	10/2	10/2
Output (AC)	Rated active power	80000 W	100000 W	110000 W
	Max. apparent AC power	88000 VA	110000 VA[1]	121000 VA[1]
	AC nominal voltage	220 V / 380 V 230 V / 400 V		
	AC voltage range	312 V - 528 V		
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz		
	Nominal AC output current	115.8 A	144.3 A	158.8 A
	Max. AC output current	127.0 A	158.8 A	174.7 A
	Adjustable power factor range	0.8 leading to 0.8 lagging		
	Feed-in phases	3 / 3-N-PE		
	Harmonic distortion (THD) at rated output	< 3%		
Efficiency & Protection	Max. efficiency / European efficiency	97.8% / 97.5%		
	DC switch	●		
	Ground fault monitoring / grid monitoring	● / ●		
	DC reverse polarity protection / AC short circuit protection	●		
	AC Overcurrent Protection	●		
	DC Surge Protection	Type II		
	AC Surge Protection	Type II		
	All pole sensitive residual current monitoring unit	●		
	Anti-islanding protection	●		
	Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II		
General data	Dimensions (W / H / D)	984/ 640 / 330 mm		
	Weight	85 kg		
	Operating temperature range	-25°C ... +60°C		
	Self-consumption (at night)	< 3 W		
	Topology	Non-isolated		
	Cooling concept	Active cooling		
	Degree of protection (according to IEC 60529)	IP66		
	Climatic category (according to IEC 60721-3-4)	4K4H		
	Max. permissible value for relative humidity (non-condensing)	100%		
	Max. operating altitude	4000 m		
	EMC	Class B		
Features	DC connection	Phoenix Contact		
	AC connection	OT/DT Terminal (Max.240mm2)		
	LED indicators (Status / Fault / Communication)	●		
	Communication interface (RS485/ WiFi /4G)	● /● /O		
	Modbus sunspec protocol[2]	●		
	Certificates and approvals (more available on request)	CE, IEC 62109-1/2, IEC 61727, IEC 62116,		

● standard features O optional features

Data at nominal conditions. All information is subject to change.

1- Overload setting is disabled as default for EU and AS/NZS4777 grid codes, rated active power equals the max. apparent AC power

2- Sunspec 100 and 700 series protocols are supported

Version: July 2022