



Central inverters without transformer

AMKASYN S88, S120, S240

Data	AMKASYN S 88-W0B liquid-cooled	AMKASYN S 120-W0B liquid-cooled	AMKASYN S 240-W0B liquid-cooled
Input values			
Max. PV generator input power	110 kW	150 kW	300 kW
MPP voltage range	430 to 800 VDC	650 to 800 VDC	650 to 800 VDC
Max. open circuit voltage	900 VDC	900 VDC	900 VDC
Max. input current	256 A	230 A	460 A
Output values			
Rated AC output power	88 kW	120 kW	240 kW
Max. AC output power	96.8 kW	132 kW	264 kW
Nominal mains voltage range	3x 280 VAC ±10%	3x 400 VAC ±10%	3x 400 VAC ±10%
Nominal AC current output	180 A	180 A	360 A
Mains frequency/range	50 Hz, 47 to 63 Hz	50 Hz, 47 to 63 Hz	50 Hz, 47 to 63 Hz
System data			
Power factor (cos phi)	> 0.98		
Maximum efficiency ¹⁾	97.5 %	97.8 %	97.8 %
European efficiency ¹⁾	97.1 %	97.4 %	97.4 %
Ambient temperature range ²⁾	0 to 50 °C		
Relative humidity	0 to 85 %, without condensation		
Power loss liquid cooling	< 1.82 kW	< 2.19 kW	< 4.38 kW
Power loss air cooling	< 0.41 kW	< 0.41 kW	< 0.82 kW
Internal power consumption during operation	< 0.45 kW	< 0.45 kW	< 0.90 kW
Internal power consumption during overnight shutdown	10 W		
Protection class	IP54		
CE compliant according to	EN 61000-6-2, EN 61000-6-4, EN 50178		
Communication / Connectivity			
Display ³⁾	7" Touch screen operator panel		
Interfaces ³⁾	Ethernet		
Failure notice	Output 24 V, 100 mA, optional sending of SMS/E-mail		
Connections DC	Screw connections		
Connections AC	Screw connections		
Features			
Main switch	Yes		
Main fuse	Yes		
Main contactor	Yes		
Isolating transformer	No		
DC switch disconnectors	Yes		
AC short circuit monitor	Yes		
AC output monitor	Yes		
Switch cabinet heating	Optional		
Casing	Switch cabinet		
Dimensions H x W x D [mm]	2000 x 1300 x 600		
Weight	405 kg		700 kg

¹⁾ Efficiency as measured without internal energy consumption ²⁾ Nominal values are achieved up to ambient temperatures of +40 °C, up to +50 °C with derating.

³⁾ Available for solar inverters with operator panel. The solar inverters are also available without operator panel.