



Central inverter with transformer

AMKASYN S88, S100

Data	AMKASYN S 88-WTB liquid-cooled	AMKASYN S 100-WTB liquid-cooled
Input values		
Max. PV generator input power	110kW	125kW
MPP voltage range	430 to 800VDC	520 to 800VDC
Max. DC voltage	900VDC	900VDC
Max. DC current input	256A	230A
Output values		
Rated AC output power	88kW	100kW
Max. AC output power	96.8kW	110kW
Nominal mains voltage range	3x 400VAC ±10%	3x 400VAC ±10%
Nominal AC current output	126A	144A
Mains frequency/range	50Hz, 47 to 63Hz	50Hz, 47 to 63Hz
System data		
Power factor (cos phi)	> 0.98	
Maximum efficiency ¹⁾	95.6 %	95.5 %
European efficiency ¹⁾	95.2 %	95.1 %
Ambient temperature range ²⁾	0 to 50 °C	
Relative humidity	0 to 85 %, without condensation	
Power loss liquid cooling	< 3,4kW	< 4,1kW
Power loss air cooling	< 0.56kW	< 0.56kW
Internal power consumption during operation	< 0.45kW	< 0.45kW
Internal power consumption during overnight shutdown	10W	
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 24V, 100mA, optional SMS/E-mail function	
Connections DC	Screw connections	
Connections AC	Screw connections	
Features		
Main switch	Yes	
Main fuse	Yes	
Main contactor	Yes	
Isolating transformer	Yes	
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	
Approx. weight	800 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.