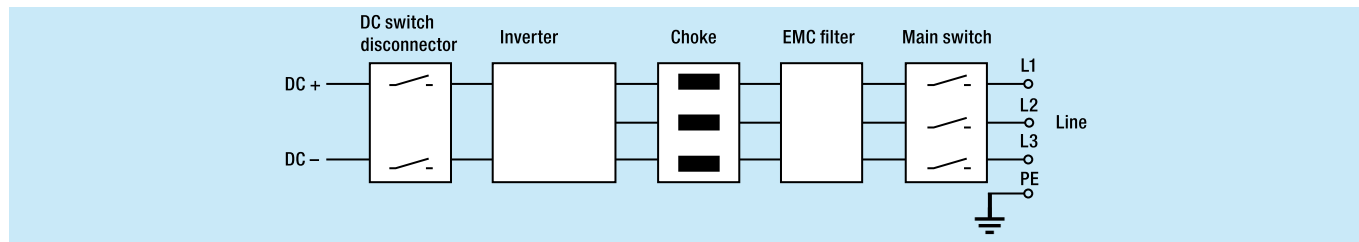


Structure diagram



Technical data

Central inverter *without transformer* AMKASYN S44, S60

Data	AMKASYN S 44-F0B air-cooled	AMKASYN S 44-W0B liquid-cooled	AMKASYN S 60-F0B air-cooled	AMKASYN S 60-W0B liquid-cooled
Input values				
Max. PV generator input power	55 kW		75 kW	
MPP voltage range	430 to 800 VDC		650 to 800 VDC	
Max. DC voltage	900 VDC		900 VDC	
Max. DC current input	128 A		115 A	
Output values				
Rated AC output power	44 kW		60 kW	
Max. AC output power	48.4 kW		66 kW	
Nominal mains voltage range	3x 280 VAC ±10 %		3x 400 VAC ±10 %	
Nominal AC current output	90 A		90 A	
Mains frequency/range	50 Hz, 47 to 63 Hz		50 Hz, 47 to 63 Hz	
System data				
Power factor (cos phi)	>0.98			
Maximum efficiency ¹⁾	97.3 %		97.7 %	
European efficiency ¹⁾	96.9 %		97.3 %	
Ambient temperature range ²⁾	0 to 50 °C			
Relative humidity	0 to 85 %, without condensation			
Power loss liquid cooling	–	< 0.92 kW	–	< 1.09 kW
Power loss air cooling	< 1.25 kW	< 0.29 kW	< 1.41 kW	< 0.29 kW
Internal power consumption during operation	< 0.64 kW	< 0.35 kW	< 0.64 kW	< 0.35 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	7" Touch screen operator panel			
Interfaces	Ethernet			
Failure notice	Output 24V, 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 500 [mm]	1900 x 900	2000 x 900	1900 x 900	2000 x 900
Weight Switch cabinet	250 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.