

# HYBRID INVERTER



ASG-(3.6-6)SL-ZH

ASG-(5-20)TL-ZH

## KEY FEATURES



String current up to 16A



Wide range of MPPT voltage



Remote diagnosis & update



<10ms UPS-level switching



24-hour intelligent energy management



Easy setting of smart working modes

	ASG-3.6SL-ZH	ASG-4SL-ZH	ASG-4.6SL-ZH	ASG-5SL-ZH	ASG-6SL-ZH	ASG-5TL-ZH	ASG-6TL-ZH	ASG-8TL-ZH	ASG-10TL-ZH	ASG-12TL-ZH	ASG-15TL-ZH	ASG-20TL-ZH	
<b>Input DC</b>													
Max. input voltage	550V						1000V						
Rated voltage	360V						600V						
MPPT voltage range	90-520V						160-950V						160-950V
Max. input current	16A/16A			16A/16A			26A/26A			36A/36A			
Max. short circuit current	20A/20A			20A/20A			32A/32A			45A/45A			
MPPT number	2			2			2			2			
Max. input strings number	2			2			4			4			
<b>Input Battery</b>													
Battery type	Li-ion						Li-ion						
Battery voltage range	80V-480V						180V-800V						
Max. charge / discharge current	30A/30A						30A/30A			2*30A/2*30A			
Communication	CAN/RS485						CAN/RS485			CAN/RS485			
Charging strategy for Li-Ion battery	Self-adaption to BMS						Self-adaption to BMS			Self-adaption to BMS			
<b>Output AC (Grid side)</b>													
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW	15kW	20kW	
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA	5kVA	6kVA	8kVA	10kVA	12kVA	16.5kVA	22kVA	
Rated grid voltage	220 V / 230 V						3/N/PE,380V/400V						
Rated grid frequency	50Hz/60Hz						50Hz/60Hz						
Max. output current	17.2A	19.1A	22A	23.9A	28.7A	8A	9.7A	12.7A	15.9A	19.1A	23.9A	31.9A	
Power Factor	>0.99 (0.8 leading - 0.8 lagging)												
THDi	< 3%												
<b>Input AC (Grid side)</b>													
Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW	10kW	12kW	16kW	20kW	24kW	27.6kW	34.5kW	
Max. input current	21A	23A	26.8A	29.1A	34.8A	14.4A	17.3A	23.1A	28.9A	34.6A	39.8A	49.7A	
Rated input voltage	1/N/PE, 220 V / 230 V						3/N/PE,380V/400V						
Rated input frequency	50Hz/60Hz						50Hz/60Hz						
<b>Output AC (Back-up)</b>													
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW	15kW	20kW	
Max. output current	15.6A	17.4A	20A	21.7A	26A	8A	9.7A	12.7A	15.9A	19.1A	23.9A	31.9A	
Back-up switch time	< 10ms												
Rated output voltage	220V/230V						380V/400V						
Rated frequency	50 Hz / 60 Hz						50Hz/60Hz						
THDv	< 2%												
<b>Efficiency</b>													
Max. efficiency	97.8%						97.34%						
EU efficiency	96.8%						96.45%						
BAT charged/ discharged to AC Max. efficiency	97.6%						97.35%						
<b>Protection</b>													
Integrated DC switch	Yes												
DC rever-polarity protection	Yes												
Anti-islanding protection	Yes												
Short circuit protection	Yes												
Output over current protection	Yes												
DC Surge protection	Type II												
AC Surge protection	Type II												
Insulation impedance detection	Yes												
Ground fault monitoring	Yes												
Residual leakage current detection	Yes												
Temperature protection	Yes												
Battery reverse protection	Yes												
AC Over voltage protection	Yes												
DC Over current protection	Yes												
I/V Curve scanning	Optional												
24-hour load monitoring	Optional												
Integrated AFCI (DC arc-fault circuit protection)	Optional												
Antibackflow	Optional												
LVRT	Optional												
<b>General Data</b>													
Dimensions (W*H*D)	455*461*213mm						561*520*232mm						
Weight	19kg						32kg			35kg			
Self consumption(night) (Rated voltage)	< 13W						20W						
Operating temperature range	-30...+60°C						-30...+60°C						
Cooling concept	Natural Cooling						Natural Cooling						
Max. operation altitude	4000m (Derating above 3000m)						4000m (Derating above 3000m)						
Relative humidity	0-100%						0-100%						
Ingress protection	IP66						IP66						
Topology structure	Transformerless												
Grid connection standard	EN 50549-1,IEC 61727,IEC 62116, IEC 61683, UNE 217001/2,NTS-631,PSE, PTP/REE,NC RfG												
Safety/EMC standard	IEC/EN 62109-1/2,IEC/EN 62477-1, EN IEC61000-6-1/2/3/4,EN IEC 61000-3-11,EN 61000-3-12												
Type of DC terminal	MC4 connector												
Type of AC terminal	Quick connection plug												
Battery connection type	Quick connection plug												
Type of AC terminal (Back-up)	Quick connection plug												
Type of AC terminal (Grid side)	Quick connection plug												
<b>Display&amp;Communication</b>													
Display	LED+Bluetooth+APP						LCD (Optional) +LED+Bluetooth+APP						
Communication Interface	RS485,Optional:WIFI,4G												

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