

# HYBRID INVERTER



ASG-(3.6-6)SL-ZH

ASG-(5-12)TL-ZH

## KEY FEATURES



String current up to 16A



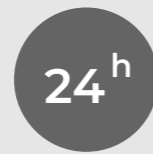
Wide range of MPPT voltage



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
<b>Input DC</b>										
Max. input voltage	550V					1000V				
Rated voltage	360V					600V				
MPPT voltage range	90-520V					200-900V				
Max. input current	16A/16A					16A/16A		26A/26A		
Max. short circuit current	20A/20A					20A/20A		32A/32A		
MPPT number	2					2		2		
Max. input strings number	2					2		4		
<b>Input Battery</b>										
Battery type	Li-ion					Li-ion				
Battery voltage range	80V-480V					200V-800V				
Max. charge / discharge current	30A/30A					30A/30A				
Communication	CAN/RS485					CAN/RS485				
Charging strategy for Li-Ion battery	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
Max. apparent output power	3.96kVA	4.4kVA	4.96kVA	5.5kVA	6.6kVA	5kVA	6kVA	8kVA	10kVA	12kVA
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	7.2A	8.7A	11.5A	14.4A	17.3A
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
Max. input current	21A	23A	26.8A	29.1A	34.8A	14.4A	17.3A	23.1A	28.9A	34.6A
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
Max. output current	15.6A	17.4A	20A	21.7A	26A	7.2A	8.7A	11.5A	14.4A	17.3A
Back-up switch time	< 10ms					< 10ms				
Rated output voltage	220V/230V					380V/400V				
Rated frequency	50 Hz / 60 Hz					50Hz/60Hz				
THDv	< 2%					< 2%				
<b>Efficiency</b>										
Max. efficiency	97.4%					97.34%				
EU efficiency	96.5%					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					35kg				
Battery standby consumption (night)	≤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, PTPiREE, 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+LED+Bluetooth+APP				
Communication Interface	RS485, Optional: WIFI, 4G									

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