

HYBRID INVERTER



ASG-(3.6-6)SL-ZH

ASG-(5-20)TL-ZH

KEY FEATURES



String current up to 16A



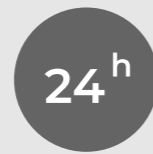
Wide range of MPPT voltage



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	
Input DC													
Max. input power	5.4kW	6kW	6.9kW	7.5kW	9kW	7.5kW	9kW	12kW	15kW	18kW	22.5kW	30kW	
Max. input voltage	550V								1000V				
Rated voltage	360V								600V				
Start-up voltage	80V								160V				
MPPT voltage range	90-520V								170-900V				
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	
Input Battery													
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	
Output AC (Grid side)													
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	15kVA	20kVA	
Max. output current	17.2A	19.1A	22A	23.9A	28.7A	11.4A	13.6A	18.2A	22.7A	27.3A	34.1A	45.5A	
Grid voltage range	160-300V								165-288V(Phase voltage),286-498V(Line voltage)				
Rated grid voltage	220 V / 230 V								220V/380V,230V/400V,3/N/PE				
Rated grid frequency	50Hz/60Hz								50Hz/60Hz				
Power Factor									>0.99 (0.8 leading - 0.8 lagging)				
THDi									<3%				
Input AC (Grid side)													
Rated input power	3.6kW	4kW	4.6kW	5kW	6kW	5kW	6kW	8kW	10kW	12kW	15kW	20kW	
Max. input power	4.8kW	5.3kW	6.2kW	6.7kW	8kW	10kW	12kW	16kW	20kW	24kW	30kW	30kW	
Max. apparent input power	4.8kVA	5.3kVA	6.2kVA	6.7kVA	8kVA	10kVA	12kVA	16kVA	20kVA	24kVA	30kVA	30kVA	
Max. input current	21A	23A	26.8A	29.1A	34.8A	15.2A	18.2A	24.2A	30.3A	36.4A	45.5A	45.5A	
Rated input voltage	1/N/PE, 220 V / 230 V								220V/380V,230V/400V,3/N/PE				
Rated input frequency	50Hz/60Hz								50Hz/60Hz				
Output AC (Back-up)													
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	7.6A	9.1A	12.1A	15.2A	18.2A	22.7A	30.3A	
Back-up switch time	<10ms								<10ms				
Rated output voltage	220V/230V								220V/380V,230V/400V,3/N/PE				
Rated frequency	50 Hz / 60 Hz								50Hz/60Hz				
THDv	<2%								<2%				
Efficiency													
Max. efficiency	97.8%								97.34%				
EU efficiency	96.8%								96.45%				
BAT charged/discharged Max. efficiency	97.6%								97.35%				
MPPT efficiency	99.8%								99.8%				
Protection													
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				
Anti-backflow									Optional				
LVRT									Optional				
Parallel									Optional				
General Data													
Dimensions (W*H*D)	455*461*213mm								561*520*232mm				
Weight	19kg								33.2kg			37.8kg	
Self consumption(night) (Rated voltage)	<17W								<20W				
Operating temperature range	-30...+60°C								-30...+60°C				
Cooling concept	Natural Cooling								Natural Cooling			Smart Fan 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	NRS 097, IEC 63027, PORTARIA N°515, EN 50549-1, IEC 61727, IEC 62116, IEC 61683, UNE 217001/2, NTS-631, PSE, PTP/IEEE, 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												
Battery connection type	MC4 connector												
Type of AC terminal (Back-up)	Quick connection plug												
Type of AC terminal (Grid side)	Quick connection plug												
Display&Communication													
Display	LED+Bluetooth+APP (Optional:LCD)								LED+Bluetooth+APP (Optional:LCD)				
Communication Interface	RS485,WIFI+Bluetooth, Optional:4G, LAN								RS485,WIFI+Bluetooth, Optional:4G, LAN				

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