

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
Input DC																			
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			
Input Battery																			
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							
Output AC (Grid side)																			
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%																	
Input AC (Grid side)																			
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											
Output AC (Back-up)																			
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%											
Efficiency																			
Max. efficiency		97.4%						97.34%											
EU efficiency		96.5%						96.45%											
BAT charged/ discharged to AC Max. efficiency		97.6%						97.35%											
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												
Antibackflow							Optional												
LVRT							Optional												
General Data																			
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 stadard							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												
Display&Communication																			
Display				LED+Bluetooth+APP								LCD+LED+Bluetooth+APP							
Communication Interface							RS485,Optional:WIFI,4G												