



Hybrid Single-Phase Low Voltage Inverter

NEUSYNC SL (3 / 4 / 5 / 6 kW)

The Acelion NEUSYNC SL Series is a low-voltage hybrid inverter designed for residential solar and small commercial applications. Built with advanced SiC technology and 98% efficiency, it provides seamless energy conversion between solar, battery, and grid sources. With compact design, IP65 protection, and ultra-fast switching, the SL Series offers reliable, silent, and smart hybrid power management for every home.



SiC Technology
98% Efficiency



6 Units Parallel



Max. Input Current 18A
(1.8 Times PV Array Input)



IP65 Protection



<10ms Switchover



Natural Cooling
(noise <25dB)

Parameter	NEUSYNC SL3	NEUSYNC SL4	NEUSYNC SL5	NEUSYNC SL6
Off-grid Parameter				
Nominal Output Power	3000 W	4000 W	5000 W	6000 W
Nominal Voltage	220V/230V/240V			
Nominal Frequency	50 Hz / 60 Hz			
Nominal Output Current	13.6 A	18.2 A	22.7 A	27.2 A
Output THD	<2%			
On-grid Parameter				
Nominal Output Power	3000 W	4000 W	5000 W	6000 W
Max. Output Current	13.6 A	18.2 A	22.7 A	27.2 A
Nominal Grid Voltage	220V/230V/240V			
Max. Input Current from Grid	16.4 A	22.7 A	27.2 A	27.2 A
Grid Voltage Range	184-276 V			
Frequency Range	45-65 Hz			
PV Input				
Max. Input Power	6000Wp	7200Wp	8000Wp	9000Wp
Starting Voltage	95 V			
Max. Input Voltage	600 V			
MPPT Voltage Range	80-550 V			
Full Load MPPT Voltage Range	350-500 V			
Number of MPPT	1			
Max. Input String per MPPT	1			
Nominal Input Voltage	360 V			
Max. Input Current	18 A			
Battery Parameter				
Battery Type	Lithium-ion			
Nominal Battery Voltage	51.2 V			
Battery Voltage Range	42-58 V			
Max. Charging Voltage	56 V			
Max. Continuous Charging	75A (SL3) / 85A (SL4) / 100A (SL5-6)			
Efficiency				
Max. Efficiency	97.5%	97.8%	98.0%	
European Efficiency / CEC Efficiency	97.2%	97.2%	97.5%	
Max. Battery Charging	95.2%			
General Data				
Size (W×H×D)	500mm × 470mm × 180mm			
Weight	<17kg			
Noise	<25dB(A)			
Operating Temperature Range	-25°C to +60°C			
Cooling Method	Natural Cooling			
Ingress Protection Grade	IP65			
Monitoring/Regulatory	Google Home, Alexa, Apple Home Kit, BLE / ISO / ALITED			
Communication Port	RS485, CAN, Wi-Fi, DRM, USB			
Protection				
DC Switch + PV Insulation Resistance Detection; residual current monitoring; Anti-islanding protection; AC Short circuit protection; AC over/under voltage protection; AC Overfrequency protection; LEVEL III PV-Backfeed protection; Surge protection; Lightning protection; Reverse polarity protection (PV & Battery)				
Certifications				
IEC/EN 62109-1:2010, IS 16221(Pt 2):2015, IS 16169:2018, CE, 61727:2004, IEC 60068-2-6/2-14/2-30				