



Hybrid Three-Phase Low Voltage Inverter

NEUSYNC UL (5/6/8/10/12 kW)

The Acelion NEUSYNC UL Series is a low-voltage hybrid three-phase inverter engineered for residential, commercial, and small industrial setups requiring intelligent solar-battery integration.

Powered by advanced SiC semiconductor technology, it delivers ultra-high conversion efficiency, dual-battery compatibility, and OTA smart upgrades. Compact, reliable, and scalable, the UL Series is ideal for off-grid, on-grid, and hybrid solar energy systems.



120% Off-grid Output Overload



SiC Technology



Support OTA Upgrade



165 mm Ultra-thin



2 Independent Battery Ports for Mixture Use of Old & New Battery



Max. PV Input Current 20 A



Independent Generator Port Smart Monitoring



3 MPPTs



AFCI/PID Function

Parameter	NEUSYNC UL5	NEUSYNC UL6	NEUSYNC UL8	NEUSYNC UL10	NEUSYNC UL12
Off-grid Output					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	14.4 kVA
Peak Power Duration*	1.5 × 10 s	1.5 × 10 s	2.0 × 10 s	2.0 × 10 s	2.0 × 10 s
Rated Output Voltage	3/N/PE 230/400 Vac		230/400 Vac		
Frequency	50/60 Hz				
On-grid Parameter					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Output Power	5.5 kVA	6.6 kVA	8.8 kVA	11 kVA	14.4 kVA
Max. Output Current	8.5 A	11 A	14.5 A	17 A	22 A
Max. Input Power from Grid					
Max. Input Current from Grid	-				
Rated Voltage	230/400 Vac				
Grid Voltage Range	185-270 V				
Grid Frequency	50/60 Hz ± 6%				
PV Input					
Max. Input Power	10 000 Wp	12 000 Wp	16 000 Wp	18 000 Wp	18 000 Wp
Max. Input Voltage	800 V				
No. of MPPTs	3				
Max. Input Strings per MPPT	1				
MPPT Voltage Range	130-800 V				
Starting Voltage	140 V				
Max. Input Current	20 A				
Short-Circuit Current	24 A / 24 A / 24 A				
Battery Parameter					
Battery Type	Lithium-ion				
Number of Battery Input	2				
Battery Voltage Range					
Battery Charging/Discharging Current	52.5 A × 2	65.2 A × 2	83 A × 2	105 A × 2	125 A × 2
Peak Charging/Discharging Current Duration	55 A × 2 - 60 s	65 A × 2 - 60 s	83 A × 2 - 60 s	110 A × 2 - 60 s	125 A × 2 - 60 s
Efficiency					
Max. Efficiency	98.7 %				
European Efficiency	98.0 %				
Max. Battery Charging / Discharging Efficiency	95.0 %				
General Data					
Size (W×H×D)	465 mm × 665 mm × 165 mm				
Weight	< 31 kg				
Noise	< 25 dB(A)				
Operating Temperature	-25 °C to +60 °C (45 °C Derating)				
Operating Altitude	≤ 4000 m (Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection Grade	IP65				
Monitoring / Topology	Google Home, Apple Home Kit, BLE / Isolated				
Communication Port	RS485, CAN, Wi-Fi 4 G, DRM0, IO, BLE				
Protection					
DC Switch, Reverse Polarity Protection, AC Overvoltage / Overcurrent / Short Circuit Protection, Anti-islanding Protection, Residual Current Monitoring, Insulation Resistance Detection, Surge Protection Type II (AC / PV), AFCI (Arc Protection), PID Optional					
Certifications					
IS 61808:1999 S, IS 62109(Pt 2):2015, IS 61689:2018, CE 61727:2004, IEC 60068-2-6, 2-14, 2-30					