

Hybrid Three-Phase High Voltage Inverter

## NEUSYNC UH (30 / 40 / 50kW)

The Acelion NEUSYNC UH Series (30–50 kW) is a high-capacity hybrid inverter built for commercial, industrial, and large-scale solar energy systems. Powered by SiC technology with up to 98% efficiency, this series delivers robust, intelligent, and scalable performance. It integrates multi-MPPT architecture, dual battery compatibility, and high overload tolerance, ensuring maximum uptime, adaptability, and energy optimisation.



SiC Technology, Max. Efficiency 98%



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



275%-626% Grid Input Power, 200A Grid Input Current Supplying to Loads & Charging Battery



6 Units in Parallel (Off-grid Mode)



Battery Current 160A, High Adaptability with Battery



50% Overload, AFCI Function (Optional)



150%-200% PV Input Power, 3-4 MPPTs, PV Input Current 40A, Higher Compatibility with PV Panel



Smaller Size, Easier for Installation and Price-wise in Shipping



Executive Generator Port, Smart Monitoring Max. Generator Input Current 200A

Parameter	30 kW	40 kW	50 kW
Detect Control Dec	Off-grid Outp		
Rated Output Power	30 kW	40 kW	50 kW
Max. Apparent Power	33 kVA	44 kVA	55 kVA
Rated Voltage	3L/N/PE, 220/380 V; 230/400 V		
Rated Frequency		50 Hz / 60 Hz	
Rated Output Current	43.5 A	58 A	72.5 A
Max. Output Current	47.9 A	63.8 A	79.8 A
Peak Power & Duration	150 % (10 s)		
Generator Input Current	150 A		
THDu		< 3 %	
	On-grid Param	eter	
Rated Output Power	30 kW	40 kW	50 kW
Rated Grid Voltage	3L/N/PE, 220/380 V; 230/400 V		
Rated Grid Frequency	50 Hz / 60 Hz		
Rated Output Current	43.5 A	58 A	72.5 A
Grid Input Current		150 A	
	PV Input		
Max. DC Input Power		75 000 Wp	
Max. Input Voltage	1000 V		
Rated Input Voltage	600 V		
Starting Voltage	180 V		
MPPT Voltage Range	150 - 850 V		
Max. Input String per MPPT	4/8		
Max. DC Input Current	4 × 40 A		
Short-circuit Current	4×60 A		
	Battery Parame		
Battery Type		Lithium-ion	
Battery Voltage Range	30 kW	40 kW	50 kW
Max. Charging/Discharging Power	30 kW		
Max. Charging/Discharging Current	80 A × 2		
Number of Battery Input Ports		2	
	Efficiency		
Max. Efficiency	98.6 %		
European Efficiency / CEC Efficiency	97.97 %		
European Efficiency / CEC Efficiency	98%		
European Emolericy / OEO Emolericy	General Dat		
Size (W×H×D)	850 mm × 550 mm × 295 mm		
Weight	88 kg		
Noise	55 dB		
Topology	Isolated		
Operating Temperature	-25 °C ~ +60 °C		
Operating Altitude	4000 m (> 3000 m Derating)		
Humidity Range	0 - 100 %		
	0 - 100 %		
Ingress Protection Grade			
Cooling Method	Intelligent Air Cooling Intelligent Air Cooling		
Monitoring	Google Home, Apple Home Kit, BLE/Isolated		
Communication Port	RS485, CAN, WIFI, 4G, DRM, IO, BLE		
DC Power		12 VDC 2A	
	Protection		
C Switch, Reverse Polarity, AC Overvoltage/Ov		ng, Residual Current Monitoring, Isol	ation Resistance Detection
rotection, AC Type II Arrester, AFCI (Optional),	PID (Optional)		