



Hybrid Three-Phase High Voltage Inverter

NEUSYNC UH (10 / 12 /15 / 18 / 20kW)

The Acelion NEUSYNC UH Series is a high-voltage hybrid inverter engineered for three-phase residential, commercial, and light-industrial applications. Built with advanced SiC technology and 98.2 % efficiency, it delivers intelligent power conversion, seamless grid interaction, and long-term reliability. Supporting parallel operation of up to 15 units, it provides exceptional scalability for large hybrid and grid-tied systems.



Real-time monitoring & remote upgrade available



Module design flexible expansion



Various Mounting Methods-
Wall-mounted, floor-standing and stacked



Support Battery Charge (optional) & Discharge under low ambient temperature



High Safety LFP-
Cell level monitoring and balancing



Wide Compatibility-
Matching with leading inverters

Parameter	NEUSYNC UH10	NEUSYNC UH12	NEUSYNC UH15	NEUSYNC UH18	NEUSYNC UH20
Off-grid Output					
Nominal Output Power	10 kW	12 kW	15 kW	18 kW	20 kW
Nominal Voltage	3/N/PE, 220/380 Vac, 230/400 Vac				
Rated Voltage	50/60 Hz				
Nominal Frequency	< 2%				
Output THDu	15 A	18 A	22.5 A	27 A	30 A
On-grid Parameter					
Nominal Output Power	10 kW	12 kW	15 kW	18 kW	20 kW
Max. Output Power	11 kVA	13.2 kVA	16.5 kVA	19.8 kVA	22 kVA
Max. Input Power from Grid	20 kVA	24 kVA	30 kVA	36 kVA	40 kVA
Max. Input Current from Grid	29 A	35 A	43 A	52 A	58 A
Max. Output Current	16 A	19 A	25 A	29 A	32 A
Max. Input Current from Grid	150 A				
Max. Output Current	150 A				
PV Input					
Max. Input Power	20 000 Wp	24 000 Wp	30 000 Wp	30 000 Wp	30 000 Wp
Max. Input Voltage	1000 V				
No. of MPPTs	2				
Max. Input Strings per MPPT	2				
MPPT Voltage Range	130-960 V				
Full Load MPPT Voltage Range	250-850 V	250-850 V	350-850 V	410-850 V	450-850 V
Nominal Input Voltage	600V				
Starting Voltage	200 V				
Max. Input Current	25A/25A				
Short-Circuit Current	30A/30A				
Battery Parameter					
Battery Type	Lithium-ion				
Battery Voltage Range	125-800 V				
Full Load Battery Voltage Range	210-800 V	250-800 V	300-800 V	360-800 V	400-800 V
Peak Charging / Discharging Current & Duration	35 A < 45 s @ 60 s				
Max. Charging / Discharging Current	25 A / 25 A				
Number of Battery Input Ports	2				
Efficiency					
Max. Efficiency	98.2 %				
European Efficiency	97.7 %				
Max. Battery Charging / Discharging Efficiency	97.8 %				
General Data					
Size (W×H×D)	573 × 590 × 219 mm				
Weight	55 kg				
Noise	< 45 dB(A)				
Cooling Method	Intelligent Air CoolingIntelligent Air Cooling				
Operating Temperature	-25℃ ~ +60℃				
Ingress Protection Grade	IP65				
Communication Port	RS485, CAN				
Monitoring / Display	APP, LCD				
Protection					
DC Switch, AC Overvoltage Protection, AC Overcurrent Protection, AC Short Circuit Protection, Anti-islanding Protection, Residual Current Monitoring, PV Insulation Resistance Detection, Surge Protection (Level II), Reverse Polarity Protection (PV/Battery), Lightning Protection					
Certifications					
IS 61683:1999, IS 62121, IS 62109-1, IS 62109-2, IS 61727:2004, ULC 61000-6-1, ULC 60068-2-1/2-14/2-30					