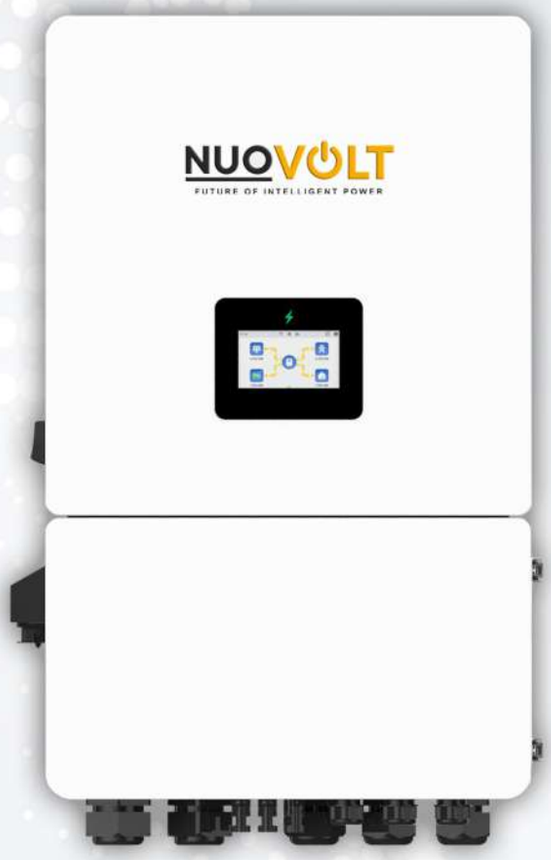
Hybrid Inverter

NUOVOLT
FUTURE OF INTELLIGENT POWER

NUO HS15KLV/HS20KLV HYBRID ON-GRID INVERTER

Application: Residential Use & Small C&I Use





THREE PHASE & LV BATTERY



Excellent Performance

- 3 MPPTs with Max. PV Input power of 30kW
- Support high power module with 20A PV input current
- Up to 380A max. charging/discharging current
- Max. Grid Passthrough Current of 45A

High Flexibility

- Support 40-60V Lithium or Lead-acid battery
- 3-Phase unbalanced output: Increase the self-use rate of solar energy
- Support smart load/generator/AC Coupling
- Max. 9 units parallel for on-gird and off-gird operation

Intelligent Maintenance

- 4.3“ LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Intelligent Management, local & remote monitoring

Safety & Reliability

- IP65: Indoor or outdoor installation
- MC4 PV connectors, convenient for installation
- Multiple built-in protections, with optional AFCI 2.0/RSD/Battery breaker
- Seamless transition to backup mode, for protection against power outages

+90 312 394 16 37
+90 538 614 56 09

İVEDİK OSB MAH.
MELİH GÖKÇEK BLV.
NO: 83 / 41, YENIMAHALLE
ANKARA / TÜRKİYE

www.nuovolt.com
info@nuovolt.com

	HS15K/LV	HS20K/LV
Efficiency		
Max. Efficiency	97.60%	
European Efficiency	97.00%	
Input (PV)		
Max. PV Access Power	40,000W	40,000W
Max. PV Usable Power	30,000W	30,000W
Max. PV Input Voltage	1,000V	
Start-up Voltage	120V	
MPPT Operating Voltage Range	160V-980V	
Max. Input Current per MPPT	20A/20A/20A	20A/20A/20A
Max. Short Circuit Current per MPPT	30A/30A/30A	30A/30A/30A
No. of MPP Trackers	3	3
No. of Strings per MPP Tracker	1/1/1	1/1/1
Input/Output (BAT)		
Battery Type	Lithium-ion / Lead-acid	
No. of Battery Input	2*	
Nominal Battery Voltage	48V	
Battery Voltage Range	40V-60V	
Max. Charge/Discharge Current	380A/350A	380A/380A
Max. Charge/Discharge Power	20,000W/18,000W	20,000W/20,000W
Input/Output (Grid)		
Nominal AC Output Power	15,000W	20,000W
Max. AC Output Apparent Power	16,500VA	22,000VA
Nominal AC Output Current	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*25A	3*33.3A
Max. Single Phase Power	8,500W	8,500W
Max. Grid Passthrough Current (grid to load)	45A	
Nominal Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE	
Nominal Frequency	50Hz/60Hz	
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI	< 3% @rated power	
Output (Back up)		
Nominal AC Output Power	15,000W	20,000W
Max. AC Output Apparent Power	16,500VA	22,000VA
Nominal AC Output Current	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*25A	3*33.3A
Peak Output Apparent Power	200% @ 10s	150% @ 10s
Nominal Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE	
Nominal Frequency	50Hz/60Hz	
Transfer Time	< 10ms (Typical)	
THDV	< 3% @100% R Load	
Input (Generator)		
Max. Input Power	30,000W	
Protection		
Protection Category	Class I	
PV Switch	Yes	
Anti-islanding Protection	Yes	
Overcurrent Protection	Yes	
PV Reverse Polarity Protection	Yes	
Overvoltage Protection	Yes	
Surge Protection	DC Type II, AC Type II	
Insulation Resistance Detection	Yes	
Residual Current Protection	Yes	
Built-in Battery Breaker	400A, Optional	
AFCI 2.0/RSD	Optional	
General		
Max. Operation Altitude	4,000m (>2,000m derating)	
Ingress Protection Degree	IP65	
Operating Temperature Range	-25°C~60°C (>45°C derating)	
Relative Humidity	0~100%	
Cooling Method	Smart Cooling	
Mounting	Wall bracket	
Dimensions (W*H*D)	460mm*742mm*266mm	
Weight	46.5kg	
HMI & COM		
Display	LED+LCD	
Communication Interfaces	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN,Optional)	
Certification		
Safety	IEC/EN 62109-1/-2	
EMC	IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920	
Grid	IEC 61727/62116, IEC 60068, IEC 61683, EN50549-1/10, CEI 0-21	
Warranty	5 Years/10 Years (optional)	

Remarks:

· The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.
*: if only one set of terminals is used, the max battery charge/discharge current will be limited to 250A

+90 312 394 16 37
+90 538 614 56 09

İVEDİK OSB MAH.
MELİH GÖKÇEK BLV.
NO: 83 / 41, YENIMAHALLE
ANKARA / TÜRKİYE

www.nuovolt.com
info@nuovolt.com