LIVOLTEK

202607V1 Edition (Preliminary)
Design and specifications are subject to change without notice

For **LATAM**

LuminHybrid

Three Phase Hybrid Inverter

HP3-30/35K L1

As the core of energy storage solutions, the LIVOLTEK three-phase hybrid inverter provides flexible, sociable solutions for residential and commercial use. Thanks to scalable battery storage capability, the high-voltage inverter supports robust energy backup and achieves high self-consumption for lower energy costs.



High Efficiency & Reliability

- 150% overload capacity (10s) in off-grid mode
- Supports max. 45A PV input current, compatible with high-power solar panels
- Seamless on grid/off grid switching time <10ms
- Supports up to 200% PV oversize, 100% three-phase unbalanced output

Flexibility & Reliability

- Supports up to 10 units in parallel for grid-tied and off-grid operation
- Diesel generator compatibility, flexible multi-energy integration
- Dual independent battery inputs for flexible configuration
- Flexible DC/AC PV coupling for retrofits and expansion

Safe & Intelligent

- Support AFCI, Type II AC/DC surge protection
- Supports intelligent terminal temperature detection
- Intelligent load management and remote OTA

LuminHybrid | Three Phase Hybrid Inverter

INVERTER

HP3-30/35KL1

Model	HP3-30KL1	HP3-35KL1
PV Input		
Max. PV Input Power	60kWp	70kWp
Max. PV Input Voltage	1100V	
Nominal Input Voltage	350V	
MPPT Voltage Range	150 ~ 850V	
No. of MPPTs / Strings per MPPT	3 (2 / 2 / 2)	
Max. PV Current	45A / 45A / 45A	
Max. Short Circuit Current	55A / 55A / 55A	
AC Input / Output @ On-grid		
Nominal AC Output Power	30kW	35kW
Max. Apparent Output Power	30kVA	35kVA
Max. AC Input Power	60kW	70kW
Nominal AC Voltage	3W+N+PE, 120 / 208V, 127 / 220V	
AC Frequency	50 / 60Hz	
Rated Output Current	83.3A@208V, 78.7A@220V	97.2A@208V, 91.9A@220V
Max. Output Current	83.3A@208V, 78.7A@220V	97.2A@208V, 91.9A@220V
THDi	< 3% (Rated Power)	
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)	
AC Input @ Generator		
Max. AC Input Power	60kW	70kW
Nominal AC Voltage	3W+N+PE, 120 / 208V, 127 / 220V	
AC Frequency	50 / 60Hz	
AC Output @ Back-up		
Nominal Output Power	30kW	35kW
Peak Output Power (10s)	45kW	52.5kW
Nominal Output Voltage	3W+N+PE, 120 / 208V, 127 / 220V	
Nominal Frequency	50 / 60Hz	
Nominal Output Current	83.3A@208V, 78.7A@220V	97.2A@208V, 91.9A@220V
THDv	< 3% (Linear Load)	
Switch Time	< 10ms	
Battery		
Battery Type	Lithium	
Battery Voltage Range	120 ~ 680V	
Max. Charge / Discharge Current [1]	80A*2 / 80A*2	
Communication with BMS	CAN	
Efficiency		
Max. Efficiency	98.40%	
Euro Efficiency	98.00%	
Protection		
PV Reverse Polarity Protection	Support	
Anti-islanding Protection	Support	
AC Overcurrent Protection	Support	
AC Short Circuit Protection	Support	
Leakage Current Protection	Support	
DC Switch	Support	
Battery Input Reverse Polarity Protection	Support	
Surge Protection	DC Type II / AC Type II	
AFCI	Support	
General Data		
Topology	Transformerless	
Dimension (W*H*D)	620*895*300 mm	
Weight	80kg	
Noise	≤65dB	
Altitude	2000m	
Cooling	Smart Air Cooling	
Ingress Protection	IP66	
Mounting Method	Wall-mounted	
Operating Temperature	-25 to +60℃	
Ambient Humidity	0 ~ 95%RH (Non-condensing)	
Display	LED & APP	
Communication	Wi-Fi / DO / DI / RS485 / CAN	

*1 Supporting parallel 160A input.

Preliminary