



Hybrid Inverter

Three Phase:
HP3-14.9K/15K/20K/25K/29.9K/30KT2 (EN)
HP3-15K/20K/25K/30K/36KM2

As the core of the energy storage solution, LIVOLTEK three phase hybrid inverter offers flexible and social-able solutions for both residential and commercial applications. With the ability of scalable battery storage, the high-voltage inverter facilitate powerful energy backup and also present high self-consumption with optimized built-in EMS to reduce energy cost.

High Performance

- 200% PV oversizing and up to 110% AC output
- 200% overload for backup loads
- Seamless on grid/off grid switching time <10ms

Flexible Application

- Max. 10 units in parallel for on-grid and off-grid operation
- 100% unbalanced output
- Compatible with generator

Safe and Reliable

- Type II AC/DC surge protection
- AFCI function optional
- IP65 Ingress protection

Safe and Reliable

- Peak shaving mode
- Support half-wave loads
- Remote control and upgrade

* Indoor/Outdoor, IP65

* Indoor, IP20

Hybrid Inverter

HP3-14.9K/15K/20K/25K/29.9K/30KT2 (EN)

INVERTER

Model	HP3-14K9T2	HP3-15KT2	HP3-20KT2	HP3-25KT2	HP3-29K9T2	HP3-30KT2
PV Input						
Max. PV Input Power	30000 Wp	30000 Wp	40000 Wp	50000 Wp	60000 Wp	60000 Wp
Max. PV Input Voltage	1000 V					
Nominal Input Voltage	600 V					
MPPT Voltage Range	150V-950V					
Start-up Voltage	180 V					
No. of MPPTs/Strings per MPPT	3/(2+2+1)			3/(2+2+2)		
Max. PV Current	32A/32A/16A			32A/32A/32A		
Max. Short Circuit Current	40A/40A/20A			40A/40A/40A		
AC @ Grid						
Max. AC Input Power	40000 W	40000 W	40000 W	40000 W & 40000 W	40000 W & 40000 W	40000 W & 450A
Max. AC Input Current	58.0 A	58.0 A	58.0 A	58.8 A	58.0 A	58.0 A
Nominal AC Output Power	14900 W	15000 W	20000 W	25000 W	29900 W	30000 W
Max. AC Output / Apparent Power	14.9 kVA	15 kVA	20 kVA	25 kVA	29.9 kVA	30 kVA
Nominal AC Voltage	3W+N+PE, 380V, 400V, 415V					
AC Frequency						
Max. AC Current	22.6 A	22.8 A	30.4 A	37.9 A	45.3 A	45.5 A
THDi @ Rated Power [%]	<3%					
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)					
EPS Output @ Off Grid						
Nominal EPS Power	14900 W	15000 W	20000 W	25000 W	29900 W	30000 W
EPS Peak Power (10s)	16400 VA	16500 VA	22000 VA	27500 VA	32900 VA	33000 VA
Nominal Output Voltage	3W+N+PE, 220/380V, 230/400V, 240/415V					
Nominal Frequency	50Hz/60Hz					
Nominal Output Current	21.6 A	21.8 A	29.0 A	36.3 A	43.2 A	43.5 A
THDv @ Linear Power [%]	<3%					
Battery Input						
Battery Type	Lithium					
Battery Voltage	100V-700 V					
Max. Charge/Discharge Current	50A/50A					
Communication with BMS	CAN					
Efficiency						
Max. Efficiency	98.20%	98.20%	98.20%	98.40%	98.40%	98.40%
Euro Efficiency	97.90%	97.90%	97.90%	97.90%	97.90%	97.90%
General Data						
Dimensions (W × H × D)	595 × 485 × 235 mm					
Weight	39 kg					
Cooling	Intelligent Fan					
Protection Rating	IP65					
Mounting Method	Wall-mounted					
Operating Temperature Range	-25 °C to +60 °C					
Display	LED & APP					
Communication	Wi-Fi/DO/DI/RS485					
Protection Function	Islanding Protection, PV DC Reverse Polarity Protection, DC Short Circuit Protection Device, AC Short Circuit Protection Device, PV DC Overcurrent Protection, AC Overcurrent Protection, Leakage Current Protection, Over/Under Frequency Protection, Over/Under Voltage Protection, Insulation Resistance Protection, Over-Temperature Protection, AC Current Imbalance Protection, Arc Detection Protection, Buzzer Warning					
Standrad						
Safty	EN 62109-1, EN 62109-2, IEC 62109-1, IEC 62109-2, IEC 61727, IEC 62116, IEC 61683					
EMC	EN 62920, EN IEC 61000-6-1, EN IEC 61000-6-2, EN IEC 61000-6-3, EN IEC 61000-6-4, EN 55011, EN 61000-3-12, IEC 61000-3-11, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4, CISPR 11, IEC 61000-3-3					
Grid Regulation	EN 50549-1, NRS 097-2-1, Engineering Recommendation G99, G100/1-2, CEI 0-21, CEI 0-16, UNE 217001, ITC-BT-40, UNE 217002, TED/749/2020, RD 413/2014, RD 1699/2011, UE 2016/631, NTS Type A, VDE-AR-N-4105, DIN VDE V 0124-100, IEC 63027					

Hybrid Inverter

HP3-15K/20K/25K/30K/36KM2

INVERTER

Model	HP3-15KM2	HP3-20KM2	HP3-25KM2	HP3-30KM2	HP3-36KM2
PV Input					
Max. PV Input Power	30000 Wp	40000 Wp	50000 Wp	60000 Wp	60000 Wp
Max. PV Input Voltage	1000 V				
Nominal Input Voltage	720 V				
MPPT Voltage Range	150V-950V				
Start-up Voltage	180 V				
No. of MPPTs/Strings per MPPT					
Max. PV Current	32A/32A/16A			32A/32A/36A	
Max. Short Circuit Current	40A/40A/20A			40A/40A/36A	
AC @ Grid					
Max. AC Input Power	36000 W	48000 W	48000 W	48000 W	48000 W
Max. AC Input Current	43.5 A	58.0 A	58.0 A	58.0 A	58 A
Nominal AC Output Power	15000 W	20000 W	25000 W	30000 W	36000 W
Nominal AC Voltage	3W+N+PE, 277/480V				
AC Frequency	50Hz/60Hz				
Max. AC Current	18.1 A	24.1 A	30.1 A	36.1 A	43.4 A
THDi @ Rated Power [%]	<3%				
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)				
EPS Output @ Off Grid					
Nominal EPS Power	15000 W	20000 W	25000 W	30000 W	36000 W
EPS Peak Power (10s)	42.0 kW			47.3 kW	
Nominal Output Voltage	3W+N+PE, 277/480V				
Nominal Frequency	50Hz/60Hz				
Nominal Output Current	18.1 A	24.1 A	30.1 A	36.1 A	43.3 A
THDv @ Linear Power [%]	<3%				
Battery Input					
Battery Type	Lithium				
Battery Voltage	100V-700V				
Max. Charge/Discharge Current	50A/50A				
Communication with BMS	CAN				
Efficiency					
Max. Efficiency	98.10%	98.10%	98.10%	98.20%	98.20%
Euro Efficiency	97.70%	97.70%	97.70%	97.80%	97.80%
General Data					
Dimensions (W × H × D)	595 × 485 × 235 mm				
Weight	38 kg				
Cooling	Intelligent Fan				
Protection Rating	IP65				
Mounting Method	Wall-mounted				
Operating Temperature Range	-25 °C to +60 °C				
Display	LED & APP				
Communication	Wi-Fi/DO/DI/RS485				
Protection Function	Islanding Protection, PV DC Reverse Polarity Protection, DC Short Circuit Protection Device, AC Short Circuit Protection, Device, PV DC Overcurrent Protection, AC Overcurrent Protection, Leakage Current Protection, Over/Under Frequency, Protection, Over/Under Voltage Protection, Insulation Resistance Protection, Over-Temperature Protection, AC Current Imbalance Protection, Arc Detection Protection, Buzzer Warning				
Standrad	EN 62109-1/2, EN 62920: 2017+A11+A1, EN IEC 61000-6-1/2/3/4, IEC61727, IEC62116				