

# Hybrid Inverter

Three Phase: HP3-5K/6K/8K/10K/12K D2 Upcoming

HP3-15K/20K/25K/30K T2<sup>[1]</sup>

As the core of the energy storage solution, LIVOLTEK three phase hybrid inverter offers flexible and scalable 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 optimised built-in EMS to reduce energy cost.

## Features

### ▪ High Performance

- 200% DC input oversizing
- 200% overload for backup loads
- Seamless switch for backup mode

### ▪ Smart Management

- Peak Shaving Mode
- Support Half-Wave Loads
- Remote Control and Upgrade

### ▪ Flexible Application

- Supports Parallel function
- 100% unbalanced output
- Compatible with Generator

### ▪ Safe and Reliable

- AC & DC SPD Type II
- AFCI function optional
- Touch-free, One-click communication



[1]: The second-generation HP3-15~30kW will be launched in 2024.08,  
HP3-5~12kW will be launched in 2024.10

# Specifications

Model	HP3-5KD2	HP3-6KD2	HP3-8KD2	HP3-10KD2	HP3-12KD2	HP3-15KT2	HP3-20KT2	HP3-25KT2	HP3-30KT2
<b>PV Input</b>									
Max. PV Input Power	10000Wp	12000Wp	16000Wp	20000Wp	24000Wp	30000Wp	40000Wp	50000Wp	60000Wp
Max. PV Input Voltage	1000V								
Nominal Input Voltage	600V								
MPPT Voltage Range	150 V ~ 950 V								
No. of MPPTs/Strings per MPPT	2/(1+1)	2/(1+1)	2/(1+1)	2/(2+1)	2/(2+1)	3/(2+2+1)	3/(2+2+1)	3/(2+2+2)	3/(2+2+2)
Max. PV Current	16/16A	16/16A	16/16A	32/16A	32/16A	32/32/16A	32/32/16A	32/32/32A	32/32/32A
Max. Short Circuit Current	20/20A	20/20A	20/20A	40/20A	40/20A	40/40/20A	40/40/20A	40/40/40A	40/40/40A
<b>AC Output @ Grid</b>									
Nominal AC Output Power	5000W	6000W	8000W	10000W	12000W	15000W	20000W	25000W	30000W
Max. AC Input Power	10000W	12000W	16000W	20000W	24000W	30000W	40000W	40000W	40000W
Nominal AC Voltage	3W+N+PE, 380V, 400V, 415V								
AC Frequency	50 Hz / 60 Hz								
Max. Output Current	7.6A	9.1A	12.1A	15.2A	18.2A	22.8A	30.4A	37.9A	45.5A
THDi, Rated Power[%]	< 3%								
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)								
<b>EPS Output @ Off Grid</b>									
Nominal EPS Power	5000W	6000W	8000W	10000W	12000W	15000W	20000W	25000W	30000W
EPS Peak Power (10s)	12kW		18.6kW			35kW		39.3kW	
Nominal Output Voltage	3W+N+PE, 220/380V, 230/400V, 240/415V								
Nominal Frequency	50 Hz / 60 Hz								
Nominal Output Current	7.3A	8.7A	11.6A	14.5A	17.4A	21.8A	29.0A	36.3A	43.5A
THDv, Rated Power[%]	< 3%								
<b>Battery Input</b>									
Battery Type	Lithium								
Battery Voltage Range	100V ~ 700 V								
Max. Charge/Discharge Current	50A/50A								
Communication with BMS	CAN								
<b>Efficiency</b>									
Max. Efficiency	97.9%	97.9%	98.0%	98.0%	98.0%	98.1%	98.1%	98.2%	98.2%
Euro Efficiency	97.2%	97.3%	97.4%	97.5%	97.5%	97.7%	97.7%	97.8%	97.8%
<b>General Data</b>									
Dimension (W*H*D)	540*470*210 mm					595*485*235 mm			
Weight	25kg	25kg	25kg	25kg	25kg	39kg	39kg	39kg	39kg
Mounting Method	Wall-mounted								
Protection Rating	IP65								
Cooling	Natural Convection					Intelligent Fan			
Operating Temperature Range	-25 °C~+60 °C								
Display	LED & APP								
Communication	Wi-Fi/DO/DI/RS485								
Standard Warranty	10 Years								
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								

Remarks: The range of output voltage and frequency may vary depending upon different grid codes.