

Hybrid Inverter

Three Phase: HP3-3K/4K/5K/6K/8K/10K/12K/15K/17K/20K /25K/30K D1

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

- 150% PV oversize
- 100% Unbalanced output
- Max. 20A DC input current per string
- Free online monitoring and maintenance
- UPS level switching time for critical loads
- Multi working modes for optimal performance



Specifications

Model	HP3-3KD1	HP3-4KD1	HP3-5KD1	HP3-6KD1	HP3-8KD1	HP3-10KD1	HP3-12KD1	HP3-15KD1	HP3-17KD1	HP3-20KD1	HP3-25KD1	HP3-30KD1
PV Input												
Max. PV Input Power	5000Wp	6000Wp	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp	22500Wp	25500Wp	30000Wp	37500Wp	45000Wp
Max. PV Input Voltage	1000V											
Nominal Input Voltage	600V											
MPPT Voltage Range	150 V ~ 850 V											
No. of MPPTs/Strings per MPPT	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+1)	2/(1+2)	2/(2+2)	2/(2+2)	2/(2+2)	2/(2+2)
Max.PV Current	20/20A	20/20A	20/20A	20/20A	20/20A	20/20A	20/20A	20/32A	32/32A	32/32A	40/40A	40/40A
Max. Short Circuit Current	30/30A	30/30A	30/30A	30/30A	30/30A	30/30A	30/30A	30/48A	48/48A	48/48A	60/60A	60/60A
AC Output @ Grid												
Nominal AC Output Power	3000W	4000W	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W	30000W
Max. AC Input Power	4500W	6000W	7500W	9000W	12000W	15000W	18000W	22500W	25500W	30000W	37500W	45000W
Nominal AC Voltage	3W+N+PE, 230/400V											
AC Frequency	50 Hz / 60 Hz											
Max. Output Current	5.3A	7.0A	8.5A	10.5A	13.5A	17.0A	21.5A	27.0A	30.0A	32.0A	40.0A	48.0A
THDi,Rated Power[%]	< 3%											
Power Factor	~1 (Adjustable from 0.8 Leading to 0.8 Lagging)											
EPS Output @ Off Grid												
Nominal EPS Power	3000W	4000W	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W	30000W
EPS Peak Power	1.1 x Pnom, 60sec											
Nominal Output Voltage	3W+N+PE, 230/400V											
Nominal Frequency	50 Hz/60 Hz											
Nominal Output Current	4.4A	5.8A	7.3A	8.7A	11.6A	14.5A	17.4A	21.8A	24.8A	29.0A	36.3A	43.5A
THDv,Rated Power[%]	< 3%											
Battery Input												
Battery Type	Lithium											
Battery Voltage Range	150V ~ 800 V											
Max. Charge/Discharge Current	30A/30A						50A/50A				60A / 60A	
Communication with BMS	CAN											
Efficiency												
Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.2%	98.2%	98.3%	98.3%	98.3%	98.3%	98.5%	98.5%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.6%	97.6%	97.8%	97.8%	98%	98.1%
General Data												
Dimension (W*H*D)	560*430*250 mm											
Weight	20kg	20kg	20kg	20kg	23kg	23kg	23kg	29kg	29kg	29kg	29kg	29kg
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/DRM/CAN/RS485											

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