



HYBRID INVERTER

HP3-5K/6K/8K/10K/12K/15K L2



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

As the core of the energy storage solution, MECC three phase hybrid inverter offers flexible and social-able solutions for both residential and commercial applica-tions. 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.

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

MODEL	HP3-5KL2	HP3-6KL2	HP3-8KL2	HP3-10KL2	HP3-12KL2	HP3-15KL2
PV INPUT						
MAX. PV INPUT POWER	10000WP	12000WP	16000WP	20000WP	24000WP	30000WP
MAX. PV INPUT VOLTAGE	1000V					
NOMINAL INPUT VOLTAGE	380V					
MPPT VOLTAGE RANGE	150 V - 950 V					
NO. OF MPPTS/STRINGS PER MPPT	2 / (2+1)		3 / (2+2+1)		3 / (2+2+2)	
MAX. PV CURRENT	32A / 16A		32A / 32A / 16A		32A / 32A / 32A	
MAX. SHORT CIRCUIT CURRENT	40A / 20A		40A / 40A / 20A		40A / 40A / 40A	
AC @ GRID						
NOMINAL AC OUTPUT POWER	5000W	6000W	8000W	10000W	12000W	15000W
MAX. AC INPUT POWER	12000WP	12000WP	17000WP	23000WP	23000WP	23000WP
MAC. AC INPUT CURRENT	31.0A	31.0A	43.5A	58.0A	58.0A	58.0A
NOMINAL AC OUTPUT POWER	5000W	6000W	8000W	10000WP	12000WP	15000WP
NOMINAL AC VOLTAGE	3W + N + PE, 127 / 220V, 133 / 230V					
AC FREQUENCY	50 HZ / 60 HZ					
MAX. AC CURRENT	13.2A	15.8A	21.0A	26.3A	31.5A	39.4A
THDI @RATED POWER[%]	< 3%					
POWER FACTOR	~1 (ADJUSTABLE FROM 0.8 LEADING TO 0.8 LAGGING)					
EPS OUTPUT @ OFF GRID						
NOMINAL EPS POWER	15000WP	6000WP	8000WP	10000WP	12000WP	15000WP
EPS PEAK POWER (10S)	10.7KW		20.0KW		22.7KW	
NOMINAL OUTPUT VOLTAGE	3W + N + PE, 127 / 220V, 133 / 230V					
NOMINAL FREQUENCY	50HZ / 60HZ					
NOMINAL OUTPUT CURRENT	12.6A	15.1A	20.1A	25.2A	30.2A	37.7A
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	98.10%	98.10%	98.10%	98.20%	98.20%	98.20%
EURO EFFICIENCY	97.70%	97.70%	97.70%	97.80%	97.80%	97.80%
GENERAL DATA						
DIMENSION (W*H*D)	DIMENSION (W*H*D)		DIMENSION (W*H*D)			
WEIGHT	WEIGHT		WEIGHT			
COOLING	COOLING		COOLING			
PROTECTION RATING	IP65					
MOUNTING METHOD	WALL-MOUNTED					
OPERATING TEMPERATURE RANGE	-25 ° C TO +60 ° C					
DISPLAY	LED & APP					
COMMUNICATION	WI-FI / DO / DI / RS485					
GRID REGULATION	IEC 61727:2004、IEC 62116:2014、EN 50549-1:2019、(EU) 2016/631、CEI 0-21、VDE-AR-N-4105:2018、UNE 217002:2020-10、NRS 097-2-1:2024、G98/G99					
SAFETY/EMCSTANDARD	EN 62109-1:2010、EN 62109-2:2011、DIN VDE V 0124-100:2020-06、ITC-BT-40 (RD 244/2019) IEC 61683:1999、RD 413/2014、RD 1699/2011、NTS TYPE A					