

Storage³

HBT[®] HV

5-12K
THREE PHASE AC COUPLE



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and
Service



Energy
Management

HYPONTECH

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MODEL	HBT-5000	HBT-6000	HBT-8000	HBT-10000	HBT-12000
BATTERY INPUT DATA					
Battery Type	Li-ion	Max. Charging/Discharging Current / A		25/25	
Input Voltage Range / V	160~800	Charging Strategy for Li-ion Battery		Self-adaption to BMS	
AC OUTPUT / INPUT DATA					
Rated Output Power / W	5000	6000	8000	10000	12000
Max. Apparent Output Power / VA	5500	6600	8800	11000	13200
Rated Active Power from Grid / W	10000	12000	15000	15000	18000
Max. Input Apparent Power / VA	11000	13200	16500	16500	20000
Rated Grid Voltage / Vac	380/400	380/400	380/400	380/400	380/400
Grid Connection	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE	3L-N-PE
Rated Grid Frequency / Hz	50/60	50/60	50/60	50/60	50/60
Max. Output Current / A	8.5	10.0	13.5	16.0	20.0
Max. Input Current / A	17	20	23	23	29
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap
THDi @ Rated Power	<3%	<3%	<3%	<3%	<3%
AC OUTPUT DATA (BACK-UP)					
Rated Output Power / W	5000	6000	8000	10000	12000
Peak Apparent Output Power / VA	10000	12000	15000	15000	15000
Rated Output Voltage / V	380/400	380/400	380/400	380/400	380/400
Rated Output Frequency / Hz	50/60	50/60	50/60	50/60	50/60
Max. Output Current / A	8.5	10.0	13.5	16.0	16.0
Auto Switch Time / ms	<10	<10	<10	<10	<10
THDV @ Linear Load	<3%	<3%	<3%	<3%	<3%
EFFICIENCY					
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%
Max. Efficiency	98.00%	98.00%	98.20%	98.20%	98.20%
Euro Efficiency	97.30%	97.30%	97.40%	97.40%	97.40%
Charged Efficiency@PV-Battery	98.50%	98.50%	98.50%	98.50%	98.50%
Charged/Discharged Efficiency @Battery<->Grid/Load	97.60%	97.60%	97.60%	97.60%	97.60%
PROTECTION FUNCTION					
Anti-Islanding Protection			Integrated		
PV String Input Reverse Polarity Protection			Integrated		
Insulation Resistor Detection			Integrated		
Residual Current Monitoring Unit			Integrated		
Output Over Current Protection			Integrated		
Output Short Protection			Integrated		
Over Voltage Protection			Integrated		
Surge Protection			AC: Type II		
Battery Reverse Protection			Integrated		
GENERAL DATA					
Dimensions (W*H*D) / mm	425*351*200	Communication with Cloud	RS485/Wi-Fi/4G/LAN (optional)	Relative Humidity / %	
Night Consumption / W	<13			CT Connection Type	
Noise Emission (Typical) / dB(A)	40	Communication with BMS	CAN, RS485	Max. Operating Altitude / m	2000 (>2000 Derating)
Operating Ambient Temperature / °C	-25 ~ +60	Communication with Meter	RS485	Climatic Category (IEC 60721-3-4)	
Battery Connection Type	SUNCLIX	Cooling Method	Natural Cooling	Protection Class	IP65
AC Connection Type	Plug-in Connector			Topology	Transformerless
				User Interface	LED/LCD
				Weight / kg	19.4