



Three Phase Hybrid Inverter



- 2 MPP trackers; efficiency 97.6%
 - Pure sine wave output; low THD
 - 100% Unbalanced three-phase output
 - Adjustable power factor
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- IP65 rated; outdoor installation possible
 - Fool-proof design; anti-reversed connection
 - Anti short circuit; anti-Islanding
 - Only 20ms-lag switch between on and off grid mode
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- Smart and auto switch of working mode
 - APP monitor the whole ESS in real-time
 - Auto cut off when problems occur

High performance ensured by Technology

Reliable and durable

User-friendly; suitable for home use

PARAMETERS	HV6K-3H	HV8K-3H	HV10K-3H	HV12K-3H
PV Input				
Max.PV input power	9000W	12000W	15000W	15000W
Max. input voltage	1000Vd.c			
MPPT voltage range	200~950Vd.c.			
Start up voltage	250Vd.c			
Max. input current	14/14Ad.c.	14/14Ad.c.	14/28Ad.c.	14/28Ad.c.
Max.short circuit PV	17/17Ad.c.	17/17Ad.c.	17/34Ad.c.	17/34Ad.c.
MPPT number	2			
No of PV strings MPPT A/MPPT B	1/1	1/1	1/2	1/2
Battery				
Battery type	Lithium-ion			
Rated voltage	500Vd.c.			
Battery voltage range	160~600Vd.c.			
Max. charge/discharge current	50/50Ad.c.			
Max. charge/discharge power	6000W	8000W	10000W	12000W
Grid output / input				
Rated output power	6000W	8000W	10000W	12000W
Max continuous output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c.	17.3Aa.c.
Max. continuous input apparent power	12000VA	16000VA	18000VA	18000VA
Max. AC input current	17.3Aa.c	23.1Aa.c	26.0Aa.c	26.0A
Rated AC voltage	230V/400Va.c.,3L+N+PE			
Rated grid frequency	50/60Hz			
Power factor at rated power/Adjustable power factor	>0.99(0.8 leading-0.8 lagging)			
THDi@rated power	<3%			
Backup output				
Rated output power	6000W	8000W	10000W	12000W
Max. output apparent power	6600VA	8800VA	11000VA	12000VA
Max. AC output current	9.5Aa.c.	12.7Aa.c.	15.9Aa.c	17.3Aa.c.
Rated voltage	230/400Va.c.,3L/N/PE			
Rated frequency	50/60Hz			
Switch time	<20ms			
Output THDv@Linear Load	<3%			
Efficiency				
Max. efficiency	97.8%	97.8%	98.0%	98.0%
EU efficiency	97.5%	97.5%	97.6%	97.6%
BAT charged Max. efficiency	98.0%	98.0%	98.0%	98.0%
BAT discharged Max. efficiency	97.5%	97.5%	97.6%	97.6%
MPPT efficiency	99.9%			
Protection				
Grid monitoring	Yes			
PV insulation resistance detection	Yes			
DC reverse polarity protection	Yes			
AC short-circuit protection	Yes			
AC over-current protection	Yes			
AC over-voltage protection	Yes			
Leakage current monitoring	Yes			
DC switch(solar)	Yes			
DC over current protection(Battery)	Yes			
Surge protection	DC Type II/AC Type III			
Anti-islanding protection	Yes			
General information				
Dimensions(W*H*D)	504*514*199mm			
Weight	29.0kg			
Topology	Transformerless			
Operating temperature range	-25~60°C			
Ingress protection	IP65			
Cooling method	Natural Convection			
Max.operating altitude	2000m			
Acoustic Noise	<40dB			
Display	LCD, APP			
Communication (BMS/Meter/Portal)	CAN/RS485/WiFi			
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3			
On-grid standard	VDE-AR-N 4105, VDE 0124-100, EN 50549-1, EN 50549-10			

