



# DATASHEET HYB-ZED-HV-5 KVA-2 | HYB-ZED-HV-10 KVA-2

Designed and manufactured by







Efficiency	HYB-ZED-HV-5 KVA-2	HYB-ZED-HV-10 KVA-2
Max. Efficiency	98,2%	98,4%
EU. Efficiency	97,2% - BAT : 98%	97,9% BAT: 98%
Input (PV)	98,2% 97,2% - BAT : 98%	
Max. PV Power(W)	8000 W	15000 W
Max. PV voltage (V)	1000 V	1000 V
Max. input current (input A/input B) (A)	15A/15A	20A/30A
Max. short current (input A/input B) (A)	20A/20A	30A/40A
Start operating voltage (V)	90V	90V
PV MPPT Voltage Range:	160V - 950V	160V - 950V
No.of MPPT trackers	2	2
String per MPP tracker	1+1	1+2
Input (BAT)		
Compatible battery type	Lithium-ion/Lead-acid	Lithium-ion/Lead-acid
Nominal battery voltage (V)	200V - 600V	200V - 600V
Battery voltage range (V)	150V - 600V	150V - 600V
Max. charge/discharge current (A)	25A / 25A	50A / 50A
Max. charge/discharge power (W)	8000W / 5200W	15000W / 10500W
Lithium battery charge curve	Self-adaption to BMS	Self-adaption to BMS
Output (Grid)		
Nominal AC output power (W)	5000 W	10000 W
Max. AC output apparent power (VA)	5500 VA	10000 VA
Max.AC output power (PF=1) (W)	5500 W	10000 W
Max. AC output current (A)	3*8,3A	3*15,2A
AC Input Max.Current:	X	X
Rated AC voltage (V)	380V / 400V	380V / 400V
AC voltage range (V)	277-520V (Ajustable)	277-520V (Ajustable)
Rated gird frequency (Hz)	50Hz/60Hz	50Hz/60Hz
AC frequency range(Hz)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)
Grid connecion	Three phase	Three phase
Power factor	> 0,99 @rated power (Adjustable 0,8	> 0,99 @rated power (Adjustable 0,8
	LG - 0,8 LD)	LG - 0,8 LD)
THDI	<3% (Rated Power)	<3% (Rated Power)
Output (Back up)		
Nominal output voltage	380V / 400V	380V / 400V
Nominal output frequency	50Hz/60Hz	50Hz/60Hz
Nominal output power	5000W	10000W
Nominal output current	3*7,6A	3*15,2A
	10ms (typ) / 20ms (max)	10ms (typ) / 20ms (max)
Transfer time	101113 (c) p) / 201113 (111ax)	



212 mm



## HYB-ZED-HV-5 KVA-2 | HYB-ZED-HV-10 KVA-2

Packaging & logistics			
Carton packaging dimension (W x H x D)	Χ		
G.W. (Gross Weight)	Χ		
Qty per pallet (pcs)	Χ		
Pallet Dimension (W x H x D)	Χ		
Pallet m³ (CBM)	Χ		
20 ft cont. Pallet Qty (Plt) /	Χ		
product Qty (pcs)			
40 ft cont. Pallet Qty (Plt) /	Χ		

#### General

product Qty (pcs)

Max. operation altitude (m) 4000 30dB Noise emission (dB) IP65 Ingress protection degree Operating temperature range (°C) -25~60 Relative humidity(%) 0~100% Cooling concept **Natural Cooling** Wall bracket Mounting Dimensions (W x H x D) 530 x 550 x 212 mm Weight (kg) 26kg

PV connection way MC4/H4

Dedicated DC connector Battery connection way

AC connection way(grid & back up)

#### Protection

Protection category

DC switch Support Anti-islanding protection AC overcurrent protection Support AC short circuit protection Support

DC reverse connection

Surge Arrester DC Type III, AC Type III

Insulation detection Support

Leakage current protection PV overvoltage category AC overvoltage category

Support GFCI AFCI Optional RSD Optional

### HMI & COM

Display LED+APP (Bluetooth) Communication BMS (CAN/RS485), Optional:

> WiFi/GPRS/4G/Ethernet, DI(DRM/R-CR) / Meter (RS485), 1\*DO, USB

5/10 Years (Optional)

(Firmware upgrade)

Warranty

## Certification

Grid IEC 61727/62116 ,AS 4777, EN 50549-1 Safety IEC62109-1&2, VDE-4105, IEC62040-1 EMC

IEC62477-1, CEI 0-21, G98









