



MOEBIUS
Intelligent PV Inverters

ZED
HYBRID MONO



DATASHEET

HYB-ZED-L-V-3,6 KVA-2 | HYB-ZED-L-V-5 KVA-2

Designed and manufactured by



DARWIN
RENEWABLE ENERGY INNOVATOR





<i>Efficiency</i>	HYB-ZED-L-V-3,6 KVA-2	HYB-ZED-L-V-5 KVA-2
Max. Efficiency	97,3%	97,3%
EU. Efficiency	94,0%	94,0%
<i>Input (PV)</i>		
Max. PV Power(W)	6480 W	9000 W
Max. PV voltage (V)	550 V	550 V
Max. input current (input A/input B) (A)	15A/15A	15A/15A
Max. short current (input A/input B) (A)	20A/20A	20A/20A
Start operating voltage (V)	90V	90V
PV MPPT Voltage Range:	90V-520V	70V-520V
No.of MPPT trackers	2	2
String per MPP tracker	1	1
<i>Input (BAT)</i>		
Compatible battery type	Lithium-ion/Lead-acid	Lithium-ion/Lead-acid
Nominal battery voltage (V)	48 V	48 V
Battery voltage range (V)	40V - 60V	40V - 60V
Max. charge/discharge current (A)	60A / 60A	60A / 60A
Max. charge/discharge power (W)	3000W / 3000W	3000W / 3000W
Lithium battery charge curve	Self-adaption to BMS	Self-adaption to BMS
<i>Output (Grid)</i>		
Nominal AC output power (W)	3600	5000 W
Max. AC output apparent power (VA)	3600	5500 VA
Max.AC output power (PF=1) (W)	3600	5500 W
Max. AC output current (A)	18	25 A
AC Input Max.Current:	28,6	X
Rated AC voltage (V)	220V / 230V	220V / 230V
AC voltage range (V)	150V -300V (Adjustable)	150V -300V (Adjustable)
Rated grid 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 connexion	Single Phase	Single Phase
Power factor	> 0,99 @rated power (Adjustable 0,8 LG - 0,8 LD)	> 0,99 @rated power (Adjustable 0,8 LG - 0,8 LD)
THDI	<3% (Rated Power)	<3% (Rated Power)
<i>Output (Back up)</i>		
Nominal output voltage	X	X
Nominal output frequency	X	X
Nominal output power	X	X
Nominal output current	X	X
Transfer time	X	X
THDV	X	X





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Packaging & logistics

Carton packaging dimension (W x H x D)	657 x 622 x 314 mm
G.W. (Gross Weight)	30,5 Kg
Qty per pallet (pcs)	6+6
Pallet Dimension (W x H x D)	1250 x 750 x 2110 mm
Pallet m ³ (CBM)	2,0m ³
20 ft cont. Pallet Qty (Plt) / product Qty (pcs)	26 pallets / 156 pcs
40 ft cont. Pallet Qty (Plt) / product Qty (pcs)	54 pallets / 324 pcs

General

Max. operation altitude (m)	4000
Noise emission (dB)	<35dB
Ingress protection degree	IP65
Operating temperature range (°C)	-25~60
Relative humidity(%)	0~100%
Cooling concept	Natural Cooling
Mounting	Wall bracket
Dimensions(W*H*D)	515mm*450mm*175mm
Weight(kg)	20kg
PV connection way	MC4/H4
Battery connection way	Dedicated DC connector
AC connection way(grid & back up)	Dedicated AC connector

Protection

Protection category	Class I
DC switch	Support
Anti-islanding protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
DC reverse connection	Support
Surge Arrester	DC Type III, AC Type III
Insulation detection	Support
Leakage current protection	Support
PV overvoltage category	II
AC overvoltage category	III

HMI & COM

Display	LED+APP
Communication	RS485/CAN(for BMS) RS485, USB, Ethernet,Optional: WIFI/GPRS DRM/RS485(for Meter)

Warranty

5/10 Years (Optional)

Certification

Grid Safety	IEC 61727/62116 ,AS 4777.2 , EN 50549-1 , G99
EMC	IEC62109-1&2, VDE-AR-N4105, CEI 0-21, NRS 097-2-1 IEC61000-6-2/3, IEC62040-1, IEC62477-1

