



MOEBIUS
Intelligent PV Inverters

EGO

SOLAR PV INVERTER



**Monophase
1 MPPT**

DATASHEET

**EGO 1,5 KVA-1 | EGO-2 KVA-1 |
EGO-3 KVA-1 | EGO-3,6 KVA-1**

Designed and manufactured by



DARWIN
RENEWABLE ENERGY INNOVATOR



<i>Efficiency</i>	EGO 1,5 KVA-1	EGO-2 KVA-1	EGO-3 KVA-1	EGO-3,6 KVA-1
Max. Efficiency	97,20%	97,50%	97,80%	97,80%
EU. Efficiency	96%	96,50%	96,80%	96,80%
Input (PV)				
Max. Input Voltage	550V	500 V	500 V	500 V
Max. PV configuration (STC)	150%	160,00%	160,00%	160,00%
Max. PV Power (W)		3200 W	4800 W	5760 W
Rated Input Voltage	360V	360 V	360 V	360 V
Max. Input Current	15A	15 A	15 A	15 A
Max. Short Circuit Current	20A	20 A	20 A	20 A
Start Input Voltage	70V	70 V	70 V	70 V
MPPT Operating Voltage Range	50V-490V	50V-490V	50V-490V	50V-490V
Max. Number of PV Strings	1	1	1	1
No. of MPPTs	1	1	1	1
Output (Grid)				
Rated AC Active Power	1500W	2000 W	3000 W	3600 W
Max. AC Apparent Power	1650VA	2200 VA	3300 VA	3600 VA
Max. AC Active Power (PF=1)	1650W	2200 W	3300 W	3600 W
Max. AC Output Current	7,5A	10 A	15 A	16 A
Rated AC Voltage	220V/230V,L+N+PE	220V/230V, L + N + PE	220V/230V, L + N + PE	220V/230V, L + N + PE
AC Voltage Range (1)	160V-300V (Adjustable)	160V-300V (Adjustable)	160V-300V (Adjustable)	160V-300V (Adjustable)
Rated Grid Frequency	50Hz/60Hz	50 Hz / 60 Hz	50 Hz / 60 Hz	50 Hz / 60 Hz
Grid Frequency Range (2)	45Hz-55Hz/55Hz-65Hz (Adjustable)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)
THDI	<3%(Rated Power)	<3% (Rated Power)	<3% (Rated Power)	<3% (Rated Power)
DC Current Injection	<0.5%In	<0.5%In	<0.5%In	<0.5%In
Power Factor	> 0.99 Rated power (Adjustable 0,8 Leading - 0,8 Lagging)	>0.99 Rated Power (Adjustable 0,8 LD-0,8 LG)	>0.99 Rated Power (Adjustable 0,8 LD-,8 LG)	>0.99 Rated Power (Adjustable 0,8 LD-0,8 LG)

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<i>General</i>		<i>Packaging & logistics</i>	
Topology	Transformerless	Carton packaging dimension (W x H x D)	440 x 415 x 230 mm
IP Rating	IP65	G.W. (Gross Weight)	8 kg
Night Self Consumption	< 1 W	Qty per pallet (pcs)	24 + 24
Cooling	Natural Cooling	Pallet Dimension (W X H X D)	1300 x 1000 x 2098 mm
Operating Temperature Range	-25°C - 60°C	Pallet m ³ (CBM)	2,7 m ³
Relative Humidity Range	0 - 100 %	20 ft cont. Pallet Qty (Plt) / product Qty (pcs)	16 pallets / 384 pcs
Max. Operating Altitude	4000 m	40 ft cont. Pallet Qty (Plt) / product Qty (pcs)	36 pallets / 864 pcs
Noise (typical)	30 dB		
Dimensions (W x H x D)	320 x 344 x 137 mm		
N.W. (Netto Weight)	6,5 kg		

Protection

DC switch	Support
Anti-islanding protection	Support
AC Overcurrent protection	Support
AC short current protection	Support
DC reverse connection	Support
Surge Arrester	DC Type III (Optional) / AC Type III
Insulation detection	Support
Leakage current protection	Support

HMI & COM

Display	Wireless & APP (EMON by Darwin) + LED
Communication	Optional: WiFi / GPRS / 4G / RS485

Warranty

5 years, 10 years when installed by Darwin registered installer

Certification

Safety	IEC62109-1, IEC62109-2
Grid Code	DE-AR-N4105, EN50549-1, CEI0-21, UNE206001 IEC61727/62116, Ordinance n°1402022, IEEE1547, AS4777, VDE0126-1

