



MOEBIUS
Intelligent PV Inverters

TARO DUO



DATASHEET

TARO-DUO-30 KVA-2

Designed and manufactured by



DARWIN
RENEWABLE ENERGY INNOVATOR



TARO-DUO-30 KVA-2
Efficiency

Max. Efficiency	98,6%
EU. Efficiency	98,3%

Input (PV)

Max. Input Voltage	1000 V
Max. PV configuration (STC)	160,00%
max. PV Power (W)	48000
Rated Input Voltage	620 V
Max. Input Current	81A (2*40,5A)
Max. Short Circuit Current	90A (2*45A)
Start Input Voltage	250V
MPPT Operating Voltage Range	180V - 960V
Max. Number of PV Strings	6 (3/3)
No. of MPPTs	2

Output (Grid)

Rated AC Active Power	30000 W
Max. AC Apparent Power	33000 VA
Max. AC Active Power (PF=1)	33000 W
Max. AC Output Current	3*48A
Rated AC Voltage	380V / 400V / 415V, 3W + N + PE
AC Voltage Range (1)	277V-520V (Adjustable)
Rated Grid Frequency	50 Hz / 60 Hz
Grid Frequency Range (2)	45Hz-55Hz / 55 Hz-65 Hz (Adjustable)
THDI	<3%@Rated Power
DC Current Injection	<0,5%@In
Power Factor	>0,99 Rated Power (Adjustable 0,8 LD-0,8 LG)

Protection

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

General

Topology	Transformerless
IP Rating	IP65
Night Self Consumption	< 1 W
Cooling	Fan Cooling
Operating Temperature Range	-25°C - 60°C
Relative Humidity Range	0 - 100 %
Max. Operating Altitude	4000 m
Noise (typical)	<50 dB
Dimensions (W x H x D)	555 x 446 x 270 mm
N.W. (Netto Weight)	41 kg

Packaging & logistics

Carton packaging dimension (W x H x D)	675 x 585 x 395 mm
G.W. (Gross Weight)	45,3
Qty per pallet (pcs)	4+4
Pallet Dimension (W x H x D)	1200 x 705 x 1868 mm
Pallet m ³ (CBM)	1,6 m ³
20 ft cont. Pallet Qty (Plt) / product Qty (pcs)	26 pallets / 104 pallets
40 ft cont. Pallet Qty (Plt) / product Qty (pcs)	56 pallets / 224 pallets

HMI & COM

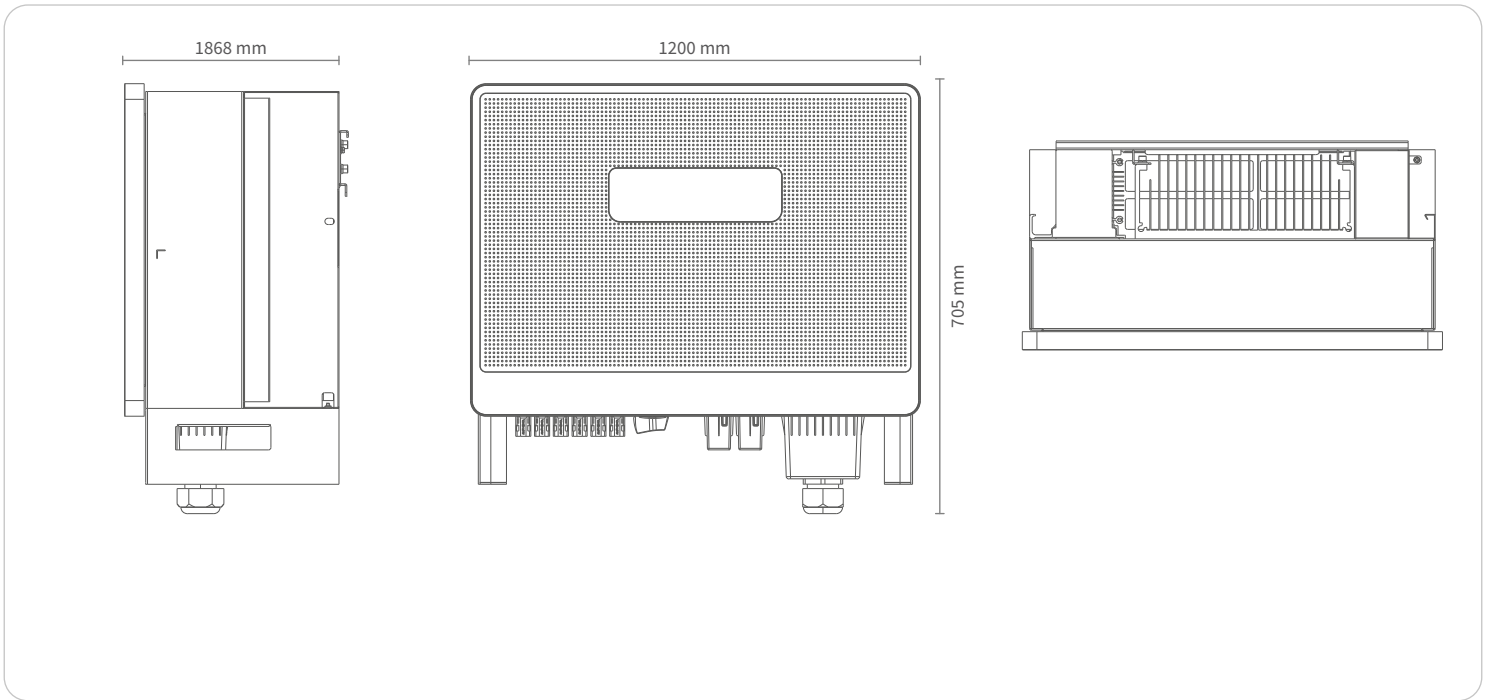
Display	Wireless & APP + LED, LCD (Optional)
Communication	RS485, Optional WiFi / GPRS / 4G

Warranty

5 years, 10 years when installed by Darwin registered installer

Certification

Safety	IEC62109-1, IEC62109-2
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001 IEC 61727/62116, AS4777.2



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*Specifications are subject to change without further notification

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