

Three-Phase Valencia SeriesT3 / T4 / T5 / T6 / T8/ T10
T12 / T15 / T17 / T20 / T25**Valencia Series**
3-PHASE INVERTERS

The Valencia Series inverter range is aimed at 3-phase domestic and small-scale commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The 3-phase Valencia Series inverter options range from 3kW to 25kW.

REFINED - POWERFUL - FLEXIBLE

**High Performance**

Low start-up voltage, wide voltage range, 98,6% **maximum efficiency.**

**Upgradeable***

Fully optimised for upgrade to the SOLARBOX range of battery storage systems.

*Requires additional SOLARBOX equipment

**IP65 Rated**

Engineered to last with maximum flexibility. Suitable for outdoor installation.

**Remote Monitoring**

Monitor your system remotely via smartphone app or web portal.

ANYTIME, ANYWHERE
REMOTE
MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform.

**Valencia Series**

For more about the SOLARBOX range of three-phase inverters, visit:

solarbox.es



TECHNICAL SPECIFICATIONS

MODEL INPUT	T3	T4	T5	T6	T8	T10	T12	T15	T17	T20	T25
Max. Recommended DC power [W]	4500	6000	7500	9000	12000	15000	18000	22500	25500	30000	37500
Max. DC Voltage [V]	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Nominal DC Operating voltage [V]	600	600	600	600	600	600	600	600	600	600	600
Max. Input Current (input A/ input B) [A]	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	25/12.5	25/25	25/25	25/25
Max.Short Circuit Current (input A/input B)[A]	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	16.25/16.25	32.5/16.25	32.5/32.5	32.5/32.5
MPPT Voltage Range [Vdc]	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850	160-850
MPPT Voltage Range (full load) [Vdc]	160-850	180-250	210-850	250/850	330-850	410-850	490-850	410-850	350-850	410-850	510-850
Start output Voltage [V]	180	180	180	180	180	180	180	180	180	180	180
No. of MPP Trackers	2	2	2	2	2	2	2	2	2	2	2
Strings per MPP Tracker	1+1	1+1	1+1	1+1	1+1	1+1	1+1	2+1	2+2	2+2	2+2
OUTPUT											
Nominal AC Power [W]	3000	4000	5000	6000	8000	10000	12000	15000	18700	20000	25000
Max. Apparent AC Power [VA]	3300	4400	5500	6600	8800	11000	13200	16500	18700	22000	27500
Rated Grid Voltage (AC Voltage Range) [Vac]	3/N/PE, 230/400 (310-480)										
Rated Grid Frequency [Hz]	50/60, ±5										
Nominal AC Current [A]	4.3	5.8	7.2	8.7	11.6	14.5	17.4	21.7	24.6	29.0	36.2
Max. AC Current [A]	4.8	6.4	8.0	9.6	12.8	15.9	19.1	23.9	27.1	31.9	39.9
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)										
Total Harmonic Distortion (THDi, @rated output)	<3%										
EFFICIENCY											
MPPT Efficiency [%]	99.8										
Euro Efficiency [%]	97.8										
Max. Efficiency (@rated voltage) [%]	98.6										
PROTECTION											
DC Reverse-polarity Protection:	YES										
Anti-islanding Protection:	YES										
Insulation Monitoring:	YES										
Residual Current Monitoring:	YES										
AC Short Circuit Protection:	YES										
AC Output Over Current Protection:	YES										
AC Output Over Voltage Protection:	YES										
Surge Protection:	Type II (DC) / Type II (AC)										
Temperature Protection:	YES										
Integrated DC Switch:	Optional										
STANDARD											
Safety	IEC62109-1/2										
EMC	IEC 61000-6-1/IEC 610006-2/IED 61000-6-3/IED61000-4-2/3/4/5/6/8										
Certification	AS4777.2-2015 / VDE-AR-N 4105 /VDE0126-1-1 /G98 / G99 / EN50549-1/CEI 0-21 /NB/T32004 IEC62116 /IEC61727 /IEC61683										
GENERAL DATA											
Dimensions (WxHxD) [mm]	384*475*186										
NET Weight [kg]	20					24					
Cooling Concept	Convection					Forced Convection					
Degree of Protection (acording to IEC60529)	IP65										
Topology	Transformerless										
Over Voltage Category	III (AC side), II (PV side)										
Noise [dB]	<30					<55					
Operating Temperature Range [°C]	-20....+60°C (derating at +45 °C)										
Storage Temperature Range [°C]	-40..... +70°C										
Altitude	3000										
Humidity	0-100% (no condensation)										
Self Consumption (night) [W]	<3W										
Monitoring Module (optional)	RS485, WIFI (optional) / GPRS (optional)										
Communication	Meter, DRM, USB update, E-stop										
Display	LCD screen, Touch Key, App, Website										