



# Photovoltaic Inverter EPSILON 10K TL



## Performant

- 1000 VDC
- 98% max.
- 97% EU
- Light

## Communicant

- RS 485, Ethernet
- Power Line Com. AC & DC
- USB
- Bluetooth

## Reliable

- Highly maintainable
- Many wearing parts
- IP55
- Corrosion tight

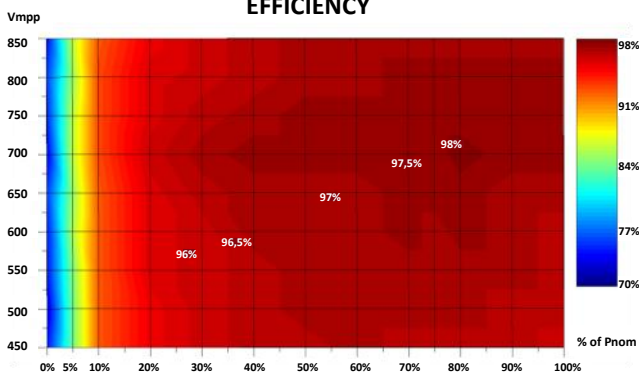


## SPECIFICATIONS

Model	EPSILON 10K
<i>DC INPUT</i>	
Maximum open circuit voltage	1000 V DC
MPPT voltage range	450 V – 850 V DC
Nominal MPP voltage	700 V DC
Nominal input current (Pnom / Umpp min)	23 A DC
Maximum input current (panel short-circuit)	27 A DC
Startup voltage / startup power	200 V / 40 W
Number of MPP trackers / PV string inputs*	1 / 2*
Polarity inversion protection	•
Connection type	MC4
PV array isolation to ground / Inverter	Floating array / not grounded
<i>AC OUTPUT</i>	
Wiring system	3-phase (3 x 4mm <sup>2</sup> ) / 4 wires
Nominal AC output real power	10 000 W
Maximum AC output real power ( cos φ = 1 )	10 870 W for 1 hour
Operational voltage	310 V - 460 V (-22% +15%)
Operational frequency	50 Hz / 60 Hz
Nominal / Maximal AC output current	14.4 A / 16.5 A
Current distortion	< 3%
Power factor	> 0.99 à 10 kW
Maximum conversion efficiency	98 % à 700 V / 8000 W
Maximum (European / CEC) efficiency	97 % / 97,5 % à 700 V DC
AC/DC isolation	Transformerless
AC short-circuit current	Automatic shut-out; 320 A peak max / 1μs
Apparent power	10.77 kVA max
Power factor span	Cos φ 0.8 inductive / Cos φ 0.8 capacitif
Overcurrent protection	16 A circuit breaker curve C
<i>SYSTEM</i>	
Chassis protection degree (IEC 60529)	IP55
Operational temperature range	(-)20°C / +50°C
Temperature derating	500 W/°C from + 40°C
Protection class / Overvoltage category / Environment category / ROHS	Class I / III / Outdoor / •
Humidity	4 – 100% with condensation
Storage temperature	(-)25°C / +70°C
Cooling	Natural convection and forced air with automatic fan control
Acoustic noise level	< 45 dBA
Possibility of connecting on EMISE	o
Epsilon for ambient extreme conditions	o
Internal lightning arrestor AC/DC	o / o
Power line communication AC/DC	o / o
Guarantee 5 / 10 / 15 / 20 years	□ / • / o / o
Certificates and ratifications	CE / VDE 0126-1-1
PCB varnishing	o
<i>COMMUNICATION</i>	
Supervision : RS485 / power line carrier AC / power line carrier DC / Ethernet / USB	• / o / o / o Max 2
Maintenance : USB / Bluetooth	• / o
Firmware updates : USB	•
<i>MECHANICAL</i>	
Width x Height x Depth	609 x 796 x 272mm
Mounting type	Wall or mast with dedicated support clamp
Weight	32kg
Installation setup	Vertical position

• Standard Equipment   o Optional Equipement

### EFFICIENCY



### ACCESSOIRES

Master for monitoring



Emise for DC cables safety

