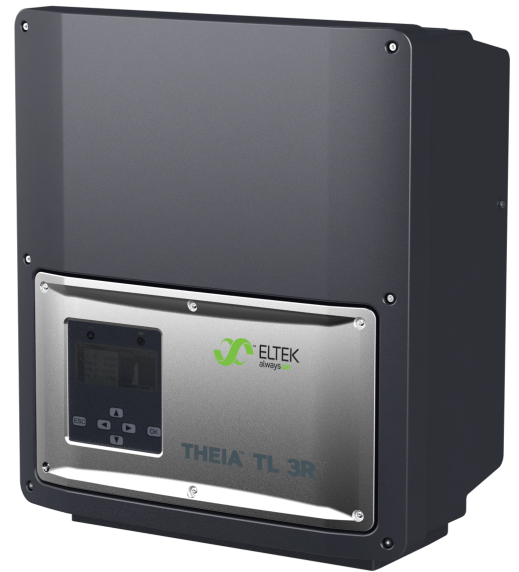


THEIA™ TL 3R

The ideal choice for all PV installations from 6 to 15kW. High efficiency, proven reliability and a compact and lightweight design make the THEIA TL 3R the best 3-phase inverter to date.



THEIA™ TL 3R

SOLAR INVERTERS: 6.0 kW – 15.0 kW

PERFORMANCE

- Maximum efficiency of 98.4 %
- True 3-phase output, meaning imbalances are impossible
- Extra wide MPPT voltage range (350 - 720 V_{dc})
- Very low night power < 2 W
- Convection cooling only

EASE OF USE

- Compact and lightweight < 45 kg
- IP66 protection
- Automatic transfer of settings to other inverters
- Simple connection systems for AC and DC terminations
- Optional integral DC disconnect

MONITORING AND COMMUNICATION

- Built-in datalogger with storage space for more than 30 years of data
- Large backlit, full graphical LCD display
- Advance monitoring software and accessories
- Multi-language display with easy setup

MODEL	7000 TL 3R	9000 TL 3R	11000 TL 3R	14000 TL 3R	16000 TL 3R
INPUT DATA					
Max. DC power	6100 W	8200 W	10200 W	13300 W	15350 W
Max. PV power	6700 W _p	9000 W _p	11200 W _p	14600 W _p	16900 W _p
Max. DC voltage	900 V _{dc}				
Voltage range MPPT	350 to 720 V _{dc}				
Max. input current	2x 10 A	2x 13 A	2x 16 A	2x 21 A	2x 24 A
Number of PV string inputs	1 + 1	2 + 2	2 + 2	2 + 2	2 + 2
Number of MPP trackers	1				
Input protection	Optional DC switch disconnecter integrated in the device Reverse polarity protection Isolation control				
OUTPUT DATA					
Nominal output power	6000 W	8000 W	10000 W	13000 W	15000 W
Max. apparent power	6000 VA	8000 VA	10000 VA	13000 VA	15000 VA
Nominal AC current	8.7 A	11.6 A	14.5 A	18.9 A	22.0 A
Max. AC current	11.2 A	14.8 A	18.5 A	22.0 A	22.0 A
Mains output voltage range	230 / 400 V _{ac} 3-phase + N (+/-20 %)				
Mains frequency	50 Hz (+/- 5 %)				
Cos Phi (power factor)	0.7i to 0.7c selectable				
Ground fault monitoring	RCD				
Output protection	Short circuit detection, Grid monitoring				
PERFORMANCE DATA					
Maximum efficiency	98.4 %				
EU efficiency	97.7 %	97.8 %	97.9 %	98.0 %	98.0 %
Power feed starts at	20 W				
Night mode power	< 2 W				
MECHANICAL DATA					
Protection degree (EN 60529)	IP 66, excluding digital interface				
Dimensions	626 H x 547 W x 290 D mm				
Weight	45 kg				
Cable access	Bottom				
Input cable connection	Multicontact MC4				
Output cable connection	Spring clamp terminals				
DESIGN STANDARDS					
EM compatibility	EN 61000-6-2, EN 61000-6-3				
CE marking	Yes				
Other standards	VDE V 0126-1-1, VDE-AR-N 4105, BDEW-2008, CEI 0-21, C10/11, G83/1, G59/2, EN 50438, ÖNORM E8001-4-712, UTE C 15-712-1, RD1663/661, IEC 62109, AS 4777, AS 3100				
ENVIRONMENTAL DATA					
Operating temperature	- 20 °C to + 60 °C				
Storage temperature	- 25 °C to + 80 °C				
Ventilation	Convection cooling				
INTERFACE					
Topology	Transformless, DIVE RAC-MPP Technology				
Protection class / Overvoltage category	I / III				
Communication	Graphical display LCD 170 x 76 pixels, EIA 485: 2x RJ45 for network components				
Warranty	10 years				