



TNK PV5 5kW hybrid inverter provides energy security and independence for your home when coupled with the TNK LV10 battery. Its ability to accept 160% oversizing of your PV array gives you greater flexibility in system design, allowing you to charge the battery while still supplying power to your home.

TNK PV5 hybrid inverter is built to the high standards for which Clenergy is known, giving you peace of mind that your energy needs will be taken care of for years to come. With a 10-year warranty and full local support in Australia, you can be confident in your investment.

Simplified Installation Process

- Market-tested mounting system for easy installation
- MC4 connectors with reverse-polarity protection
- Efficient commissioning process through the APP

User-friendly Monitoring System

- Wi-Fi connectivity included
- Live monitoring of system through the APP
 - Consumption meter included

Reliable

- IP66-rated suitable for indoor and outdoor installation
- 10-year product warranty
- Integrated blackout protection with in-built EPS

Real-time Control

APP with real-time control allows installers to;

- adjust AC output limits for local regulatory compliance
- manage self-consumption, selling to the grid, and charging the battery

Product Parameters - TNK PV5 5kW -

Model Number	TNK-5000-PV-D1	
PV Input	Max. PV array power	8 KW
	Max. input voltage	600 V
	MPP voltage range	90 V to 520 V
	Start voltage	90 V
	No. of independent MPPT trackers / strings per MPPT input	2 / 2
	Max. input current per MPP tracker	16 A / 16 A
	Max. short-circuit current per MPP tracker	24 A / 24 A
Battery Input/ Output	Nominal battery voltage	48 V
	Battery voltage range	42 V to 58 V
	Max. charging / discharging power	5000 W / 5000 W
	Max. charging current / Max. discharging current	105 A / 105 A
AC Output	Compatible battery	TNK LV Seres Battery
	Rated active power	5000 W
	Rated apparent power	5500 VA
	AC voltage range	187 V to 253 V
	Rated AC grid frequency	50 Hz / 60 Hz
	AC grid frequency range	45 Hz to 55Hz / 55 Hz to 65Hz
	Rated grid output current (@230V)	21.7 A
	Max. grid output current	25 A
AC Input	Harmonics THDi (@ Nominal power)	< 2%
	Rated apparent power	5500 VA
	Rated grid voltage	a.c. 230V
	Rated grid frequency	50Hz / 60Hz
EPS Output	Rated input current from grid	a.c. 25 A
	Max. input current from grid	a.c. 34.1 A
	Nominal output voltage	230 V
	Nominal output frequency	50 Hz / 60 Hz
	Max / Rated apparent power	5000 W
	Peak output apparent power	7000 VA, 60s
	Rated current (@230V)	21.7 A
	Max. output current	36.5 A
Efficiency	Max. switch time	< 10 ms
	Output THDi (@ Linear load)	< 2%
	MPPT efficiency	99.90%
	Euro efficiency	> 96.20%
Protection	Max. efficiency	> 97.50%
	Max. battery to load efficiency	> 93.51%
	DC switch	✓
	PV string & battery input reverse polarity protection	✓
	All-pole sensitive residual current monitoring unit	✓
	Anti-islanding protection	✓
	Ground fault protection	✓
	AC output over current protection	✓
Short circuit current protection	✓	
General Info	AC over-voltage protection	✓
	Export power control	✓
	Power factor at rated power / adjustable displacement	> 0.99 / 0.8 leading to 0.8 lagging
	Dimensions (W / H / D)	405 / 480 / 205 mm
	Device weight	24.2 kg
	Operating temperature range	-25 °C ... + 60 °C
	Noise emissions (typical)	30 dB(A)
	Standby consumption	10 W
	Cooling concept	Natural convection
	Degree of protection (as per IEC 60529)	IP66
	Max. operating altitude	4000m
	User interface	LED & App
	BMS interface	RS485 / CAN
	Meter interface	RS485
	Communication with portal	WIFI stick
Other interfaces	DRM	
Warranty	10 Years	



Notes:

Nominal AC power set to 4600 W for VDE-AR-4105 grid code

Apparent power set to 4600 W for VDE-AR-4105 grid code

Max. output current limited to 21.7 A when set to the AS/NZS 4777.2 grid code

Version: 1.1

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