



TNK PV single-phase hybrid inverters provide energy security and independence for your home when coupled with the TNK LV10 battery. Their ability to accept 160% oversizing of your PV array gives you greater flexibility in system design, allowing you to charge the battery whilst still supplying power to your home.

TNK PV5 and PV6 are 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 via the smartphone app

User-friendly Monitoring System

- Wi-Fi connectivity included
- Live system monitoring via the smartphone app
- Consumption meter included

Durable & Reliable

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

Real-time Control

Smartphone app with real-time control allows installers to:

- Adjust AC output limits for local regulatory compliance
- Manage self-consumption, grid exports and battery charging schedules

Product Specifications – TNK PV5/6

Model Number	TNK-5000-PV-E1 TNK-6000-PV-E1	
PV Input	Max. PV array power	8kW 9.6kW
	Max. input voltage	600V
	MPPT voltage range	90-520V
	Start voltage	90V
	No. of independent MPPTs / strings per MPPT input	2 2
	Max. input current per MPPT	16A 16A
	Max. short circuit current per MPPT	24A 24A
Battery Input/ Output	Nominal battery voltage	48V
	Battery voltage range	42-58V
	Max. charging / discharging power	5kW / 5kW 6kW / 6kW
	Max. charging / discharging current	105A / 105A 125A / 125A
	Compatible battery	TNK LV10 (TNK-10000-LV-A1)
AC Output	Rated active power	5kW 6kW
	Rated apparent power	5kVA 6kVA
	AC voltage range	187-253V
	Rated AC frequency range	50Hz / 60Hz
	AC grid frequency range	45-55Hz / 55-65Hz
	Rated grid output current (@230V)	21.7A 26.1A
	Max. grid output current	25A 30A
	Harmonics THDi (@Nominal Power)	<2%
AC Input	Rated apparent power	5kVA 6kVA
	Rated grid voltage	230V
	Rated grid frequency	50Hz / 60Hz
	Rated input current from grid	25A 30A
	Max. input current from grid	32A 40A
EPS Output	Nominal output voltage	230V
	Nominal output frequency	50Hz / 60Hz
	Max. / rated apparent power	5kW 6kW
	Peak output apparent power	7kVA (60s) 8kVA (60s)
	Rated current (@230V)	21.7A 26.1A
	Max. output current	31.8A 36.4A
	Max. switch time	<10ms
	Output THDi (@Linear load)	<2%
Efficiency	MPPT efficiency	99.90%
	Euro efficiency	>96.20%
	Max. efficiency	>97.50%
	Max. battery to load efficiency	>93.51%
Protection	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	✓
	AC over-voltage protection	✓
	Export power control	✓
General Info	Power factor at rated power / adjustable displacement	>0.99 / 0.8 leading to 0.8 lagging
	Dimensions (W/H/D)	(405 x 480 x 205) mm
	Device weight	24.2kg
	Operating temperature range	-25°C – +60°C
	Operating sound volume (typical)	30dB(A)
	Standby consumption	10W
	Cooling mechanism	Natural convection
	Environmental rating (per IEC 60529)	IP66
	Max. operating altitude	3000m
	User interface	LEDs & app
	BMS interface	CAN over RS485
	Meter interface	Modbus RTU over RS485
	Wireless Communication	Wi-Fi via data logger
	Other communication interfaces	DRM
	Warranty	10 years
	Country of manufacture	China



Notes:

- AC power set to 4600W (nominal) and 4600VA (apparent) for VDE-AR-4105 grid code
- Max. output current limited to 21.7A (TNK-PV5) and 26.1A (TNK-PV6) when set to AS/NZS 4777.2 grid code

Version: 1.7

Last Updated: May 2024

sales@clenergyess.com

www.clenergyess.com

@ClenergyGlobal
 @ClenergyClub
 @ClenergyAUS

@Clenergy

@Clenergy_global

@Clenergy

A Clenergy Technologies Company