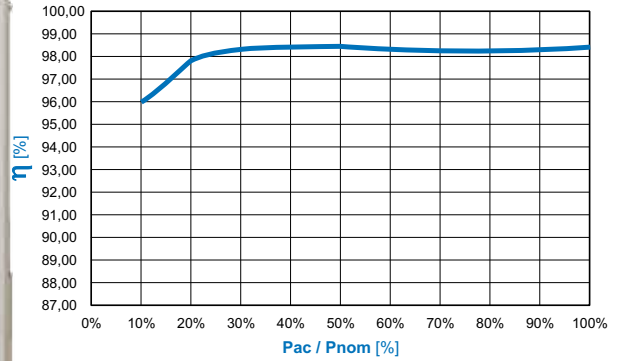


# Sizes APV250k/270k/330k-TL • Dimensions and weight - Technical data



	APV-250k-TL (without transf.)	APV-270k-T (without transf.)	APV-330k-T (without transf.)
Rated power (AC side)	250 kW	270 kW	330 kW

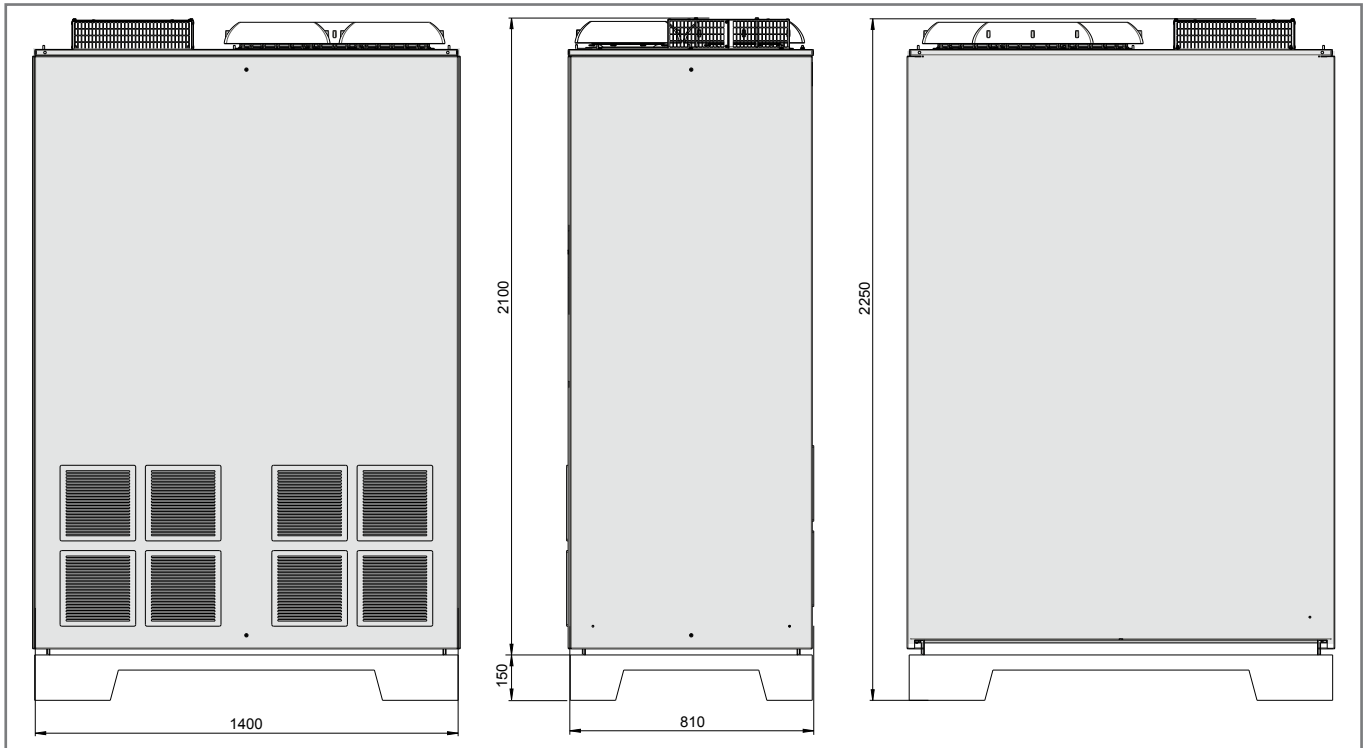
Efficiency curve



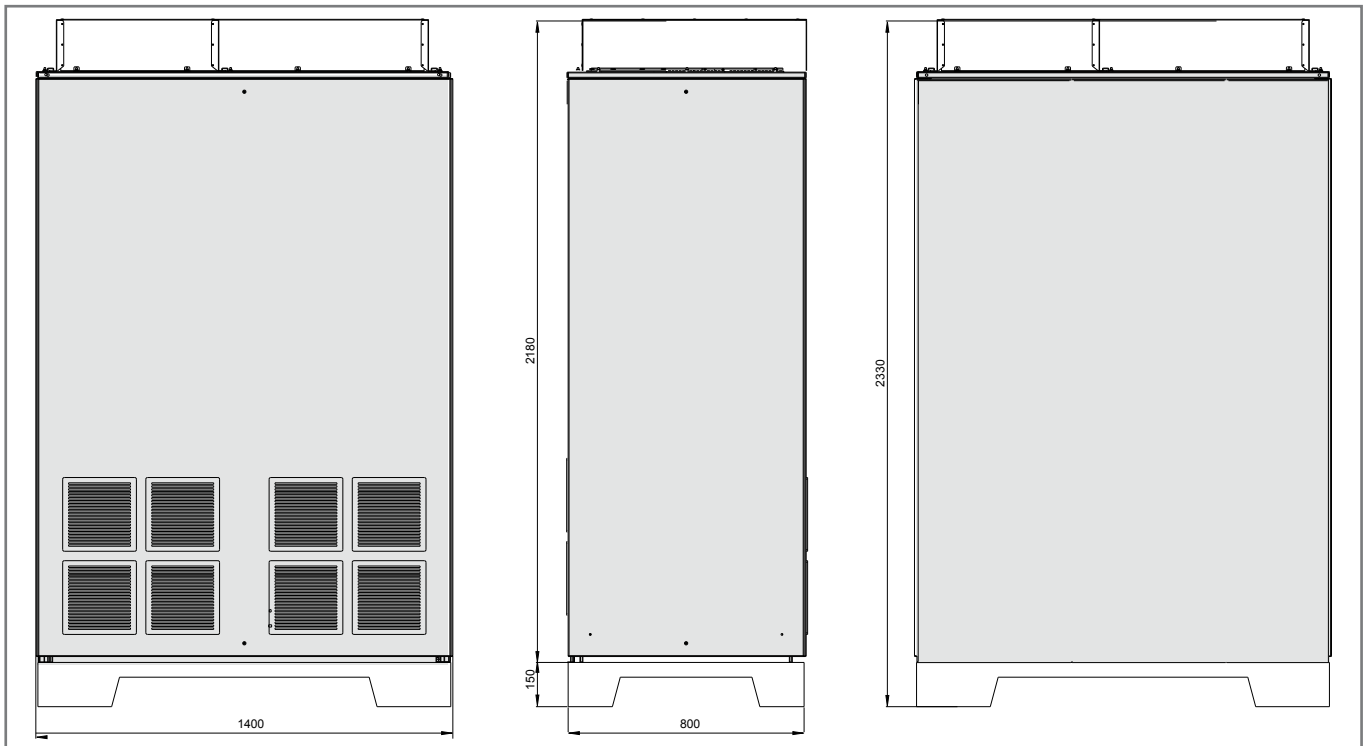
@500Vdc — APV330-TL

**5 years**  
warranty

## Dimensions and weight



Model			APV250k/270k-TL	APV330k-TL
Dimensions:	Width x Height x Depth	[mm]	1400 x 2250 x 800	1400 x 2250 x 800
		[inches]		
Weight		kg [lbs]	965	1080



Solution with cabinet hood.

Model			APV250k/270k-TL-...-V	APV330k-TL-...-V
Dimensions:	Width x Height x Depth	[mm]	1400 x 2330 x 800	1400 x 2330 x 800
		[inches]		
Weight		kg [lbs]	965	1080

## Grid connection – SOUTH AFRICA

### Technical data

Central Inverter - Model			APV250k-TL-M-SA	APV270k-TL-M-SA	APV330k-TL-M-SA
<b>DC INPUT</b>					
<b>MPPT voltage range</b>	U <sub>DC</sub>	[V]	485...850	485...850	485...850
<b>Minimum operating voltage</b>	U <sub>DC min</sub>	[V]	450	450	450
<b>Maximum voltage allowed</b>	U <sub>DC max</sub>	[V]	1000 (1)	1000 (1)	1000 (1)
<b>Maximum current allowed</b>	I <sub>DC max</sub>	[A]	525	578	694
<b>AC OUTPUT</b>					
<b>Rated power</b>		[kW]	250	275	330
<b>Rated Output voltage</b>	U <sub>AC nom</sub>	[V]	320	320	320
<b>Maximum current</b>	I <sub>AC max</sub>	[A]	527	580	707
<b>Short circuit current (=1.5*I<sub>n</sub>)</b>	I <sub>SC</sub>	[A]	792	871	1062
<b>Grid frequency</b>	f <sub>AC</sub>	[Hz]	50	50	50
<b>Harmonic distortion</b>	THD grid	[%]	≤ 3	≤ 3	≤ 3
<b>Power factor at rated power</b>	cosphi		0.99	0.99	0.99
<b>Adjustable power factor</b>	cosphi		from -0.9 to +0.9	from -0.9 to +0.9	from -0.9 to +0.9
<b>EFFICIENCY RATING</b>					
<b>Maximum efficiency (3)</b>		[%]	98.3	98.3	98.45
<b>European efficiency (Euro-ETA) (3)</b>		[%]	97.7	97.7	98.0
<b>GENERAL DATA</b>					
<b>Protection class</b>			IP20	IP20	IP20
<b>Power switch on AC side</b>			yes	yes	yes
<b>Power switch on DC side</b>			yes	yes	yes
<b>Reverse polarity protection diodes on DC side</b>			yes	yes	yes
<b>Ground fault monitoring</b>			optional	optional	optional
<b>Overcurrent protection</b>	<b>AC side</b>		yes	yes	yes
	<b>DC side</b>		yes (2)	yes (2)	yes (2)
<b>Overvoltage protection</b>	<b>AC side</b>		no	no	no
	<b>DC side</b>		optional	optional	optional
<b>Remote plant monitoring</b>			optional		
<b>Ground kit</b>			optional (1)		
<b>Ambient temperature range (without power derating)</b>		[°C]	from -10 °C to + 50 °C (4)		
<b>Requested air flow (input)</b>		[m <sup>3</sup> /h]	5000		
<b>Cooling</b>			Thermostatically-controlled		
<b>Relative humidity of air</b>		[%]	from 5% to 85% without condensation		
<b>Maximum altitude</b>		[m]	1000 m (2000 m with derating)		
<b>Topology</b>			Without transformer		
<b>Certification</b>			CE; South African Grid code		

(1) For string configurations, maximum recommended V<sub>dc</sub> voltage 965V. If using the ground kit, maximum V<sub>dc</sub> = 900V.

(2) Only APV...-IF versions (4+4 inputs with 160 A fuses for 250 kW and 270 kW, 5+5 for 330 kW).

(3) Efficiency refers to values calculated at 500 V<sub>dc</sub> (at 25°C), excluding auxiliary power supply.

(4) Temperature range with cos phi and rated network voltage.

Only for 330 kW: from -10°C to + 40°C, with cos phi 0.95 and network voltage V<sub>n</sub> -10%.