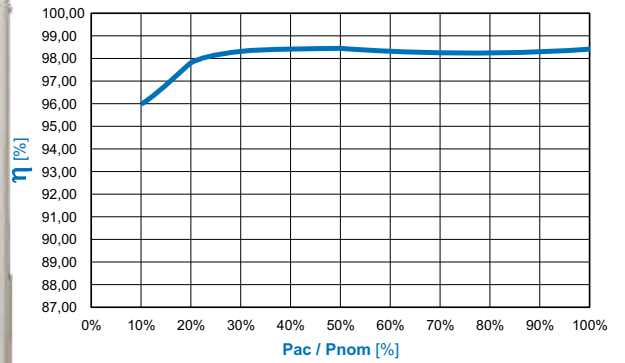


# Sizes APV250k/270k/330k-TL • Dimensions and weight - Technical data



	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

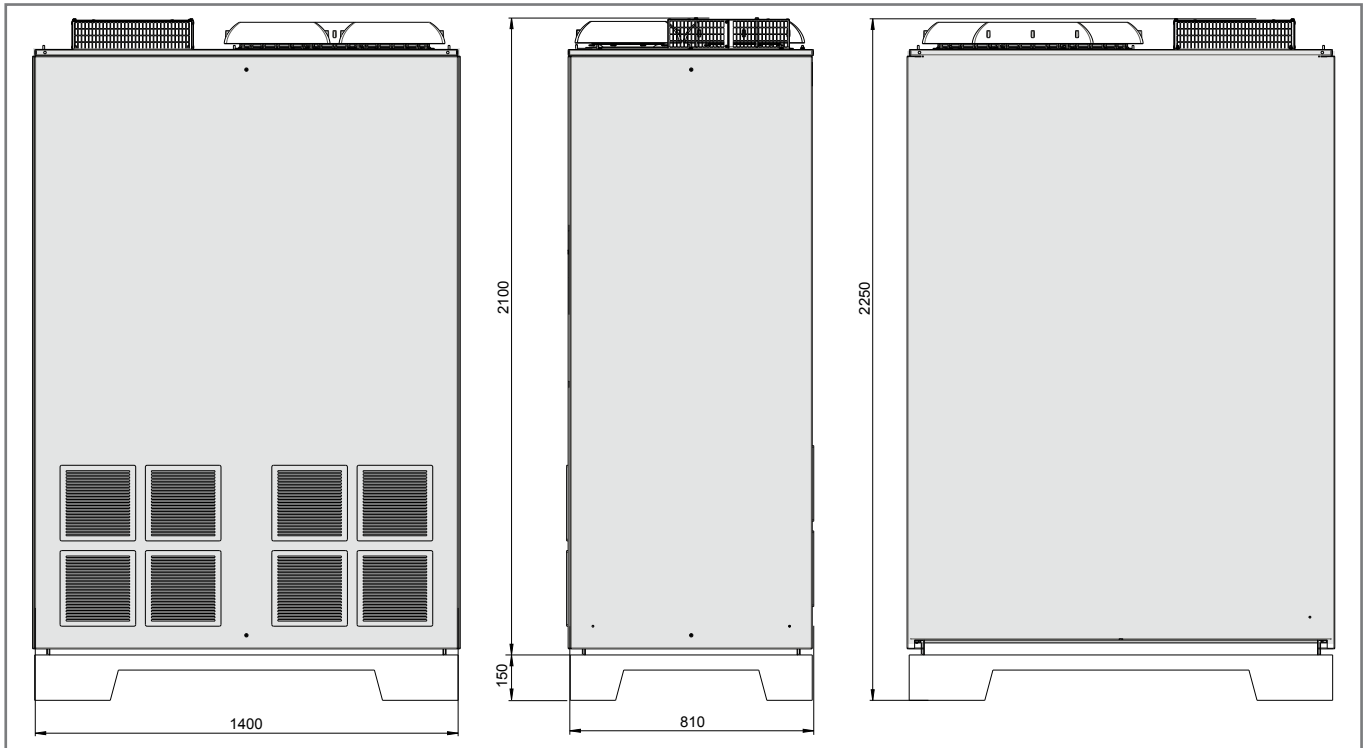
Efficiency curve



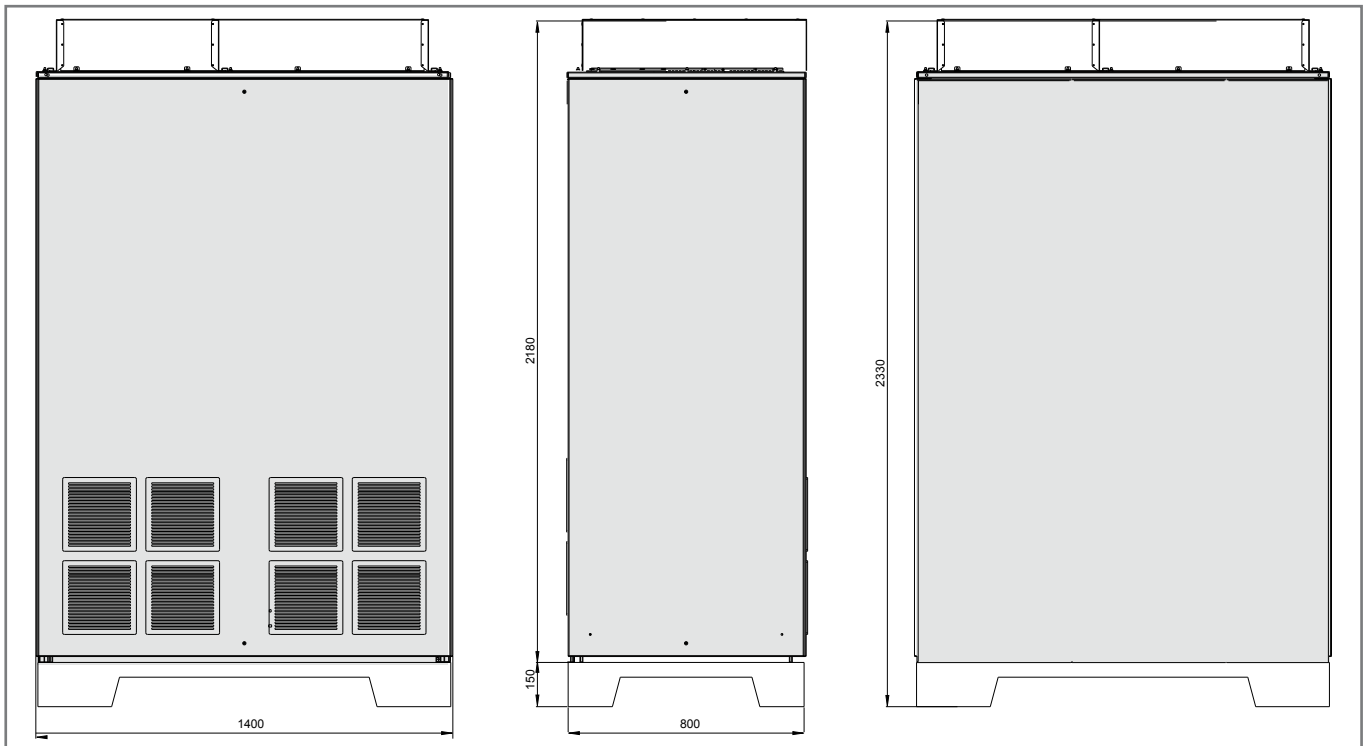
@500Vdc — APV330-TL

**5 years**  
warranty

## Dimensions and weight



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



Solution with cabinet hood.

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

Technical data

Central Inverter - Model			APV250k-TL	APV270k-TL	APV330k-TL-M
<b>DC INPUT</b>					
MPPT voltage range	U <sub>DC</sub>	[V]	490...850	490...850	500...850
Minimum operating voltage	U <sub>DC min</sub>	[V]	450	450	450
Maximum voltage allowed	U <sub>DC max</sub>	[V]	1000 (1)	1000 (1)	1000 (1)
Maximum current allowed	I <sub>DC max</sub>	[A]	531	573	677
<b>AC OUTPUT</b>					
Rated power		[kW]	250	270	330
Rated Output voltage	U <sub>AC nom</sub>	[V]	320	320	320
Maximum current	I <sub>AC max</sub>	[A]	452	488	600
Short circuit current (= 1.5*I <sub>n</sub> )	I <sub>sc</sub>	[A]	678	732	900
Grid frequency	f <sub>AC</sub>	[Hz]	50	50	50
Harmonic distortion	THD grid	[%]	≤ 3	≤ 3	≤ 3
Power factor at rated power	cosphi		0.99	0.99	0.99
Adjustable power factor	cosphi		from -0.9 to +0.9	from -0.9 to +0.9	from -0.9 to +0.9
<b>EFFICIENCY RATING</b>					
Maximum efficiency (3)		[%]	98.3	98.3	98.45
European efficiency (Euro-ETA) (3)		[%]	97.7	97.7	98.0
<b>GENERAL DATA</b>					
Protection class			IP20	IP20	IP20
Power switch on AC side			optional (4)	optional (4)	yes
Power switch on DC side			yes	yes	yes
Reverse polarity protection diodes on DC side			yes	yes	yes
Ground fault monitoring			optional	optional	optional
Overcurrent protection	AC side		yes	yes	yes
	DC side		optional (2)	optional (2)	yes (2)
Overvoltage protection	AC side		no	no	no
	DC side		optional	optional	optional
Remote plant monitoring				optional	
Ground kit				optional (1)	
Ambient temperature range (without power derating)		[°C]	from -10 °C to + 50 °C		
Requested air flow (input)		[m <sup>3</sup> /h]	5000		
Cooling			Thermostatically-controlled		
Relative humidity of air		[%]	from 5% to 85% without condensation		
Maximum altitude		[m]	1000 m (2000 m with derating)		
Topology			Without transformer		
Certification			CE; CEI 0-16 ed. III		

(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) Standard with APV250k-TL-M and APV270k-TL-M versions.