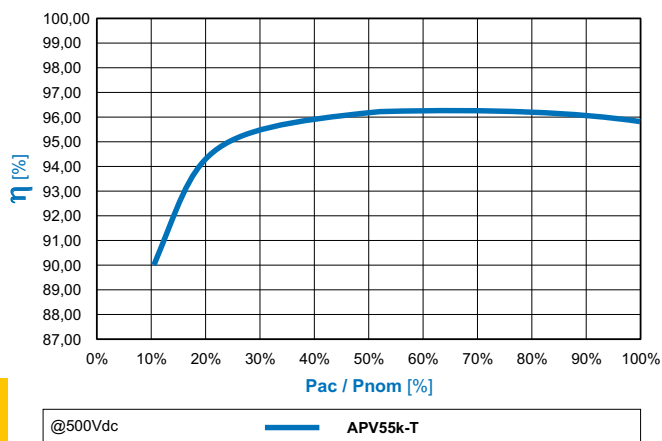


Sizes APV55k-T • Dimensions and weight - Technical data



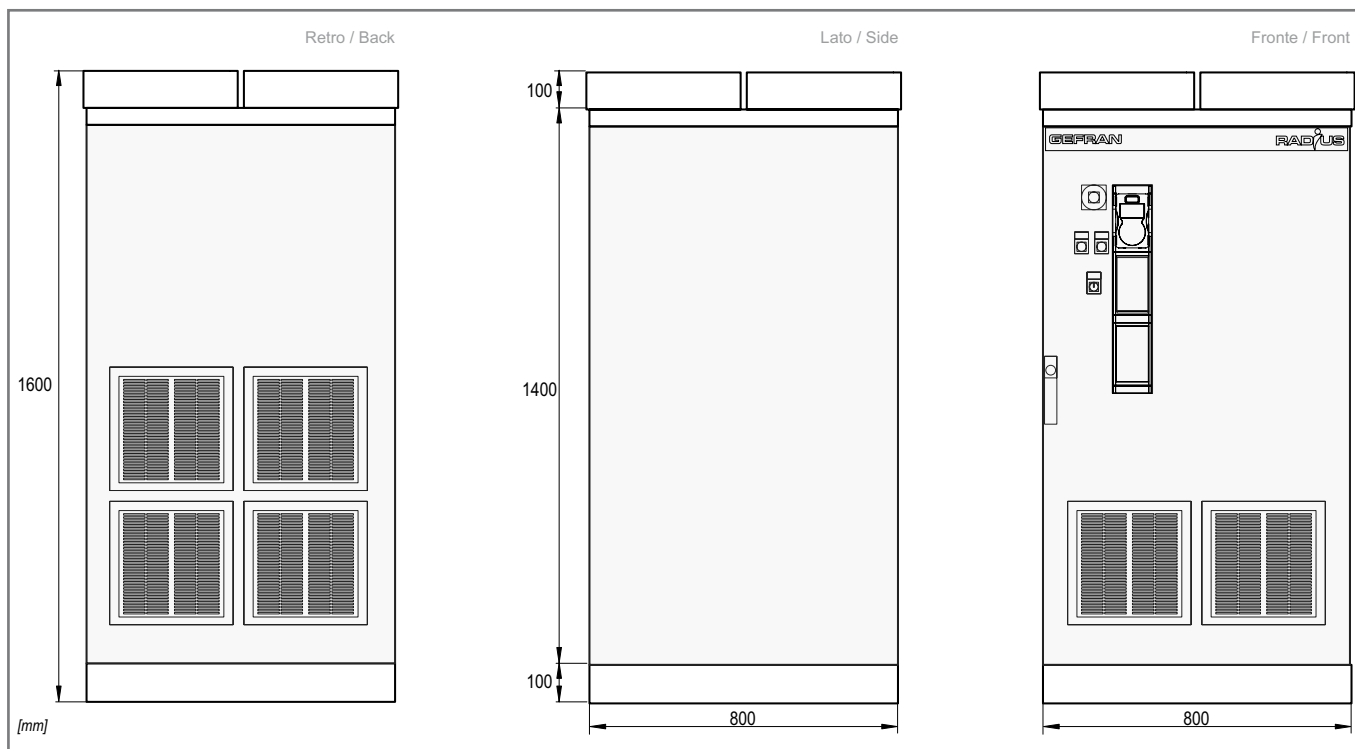
	APV-55k-T (with transformer)	APV-55k-T-E (with transformer)
Rated power (AC side)	49.5 kW (BT)	55 kW

Efficiency curve



5 years
warranty

Dimensions and weight



Model		APV55k
Dimensions: Width x Height x Depth	mm [inches]	800 x 1600 x 800 [31.5 x 62.99 x 31.5]
Weight	kg [lbs]	550 [1213]

Technical data

Central Inverter - Model			APV55k-T ⁽¹⁾	APV55k-T-E
DC INPUT				
MPPT voltage range	U _{DC}	[V]	465...850	465...850
Minimum operating voltage	U _{DC min}	[V]	450	450
Maximum voltage allowed	U _{DC max}	[V]	1000 ⁽²⁾	1000 ⁽²⁾
Maximum current allowed	I _{DC max}	[A]	108	119
AC OUTPUT				
Rated power		[kW]	49.5	55
Rated Output voltage	U _{AC nom}	[V]	400 (±15%)	400 (±15%)
Maximum current	I _{AC max}	[A]	79.4	79.4
Short circuit current (=1.5*I _n)	I _{SC}	[A]	119.1	119.1
Grid frequency	f _{AC}	[Hz]	50	50
Harmonic distortion	THD grid	[%]	≤ 3	≤ 3
Power factor at rated power	cosphi		0.99	0.99
Adjustable power factor	cosphi		from -0.9 to +0.9	from -0.9 to +0.9
EFFICIENCY RATING				
Maximum efficiency ⁽³⁾		[%]		96.30
European efficiency (Euro-ETA) ⁽³⁾		[%]		95.06
GENERAL DATA				
Protection class				IP30
Power switch on AC side				yes
Power switch on DC side				yes
Reverse polarity protection diodes on DC side				yes
Ground fault monitoring				optional
Overcurrent protection	AC side			yes
	DC side			no
Overvoltage protection	AC side			no
	DC side			optional
Remote plant monitoring				optional
Ground kit				optional ⁽²⁾
Ambient temperature range (without power derating)		[°C]		from -10 °C to + 50 °C
Requested air flow (input)		[m ³ /h]		2000
Cooling				Thermostatically-controlled
Relative humidity of air		[%]		from 5% to 85% without condensation
Maximum altitude		[m]		1000 m (2000 m with derating)
Topology				With isolation transformer
Certification			CE; CEI 0-21	CE; VDE V 0126-1-1; RD 1663; G59/1; G59/2; C10/11; AS4777.2; AS 4777.3.

(1) Standard product configuration for LV applications (CEI 0-21). For MV applications (A70) please contact the Gefran after-sales service.

(2) For string configurations, maximum recommended V_{dc} voltage 965V. If using the ground kit, maximum V_{dc} = 900V.

(3) Efficiency refers to values calculated at 500 V_{dc} (at 25°C), excluding auxiliary power supply.