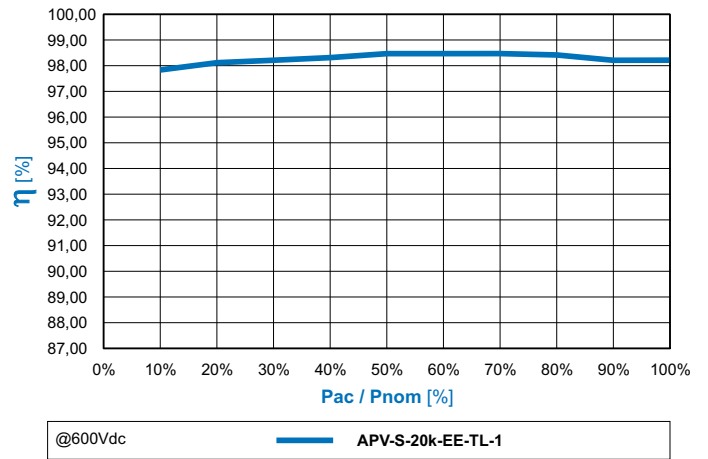


Size APV-S-..k-EE-TL- • Dimensions and weight - Technical data

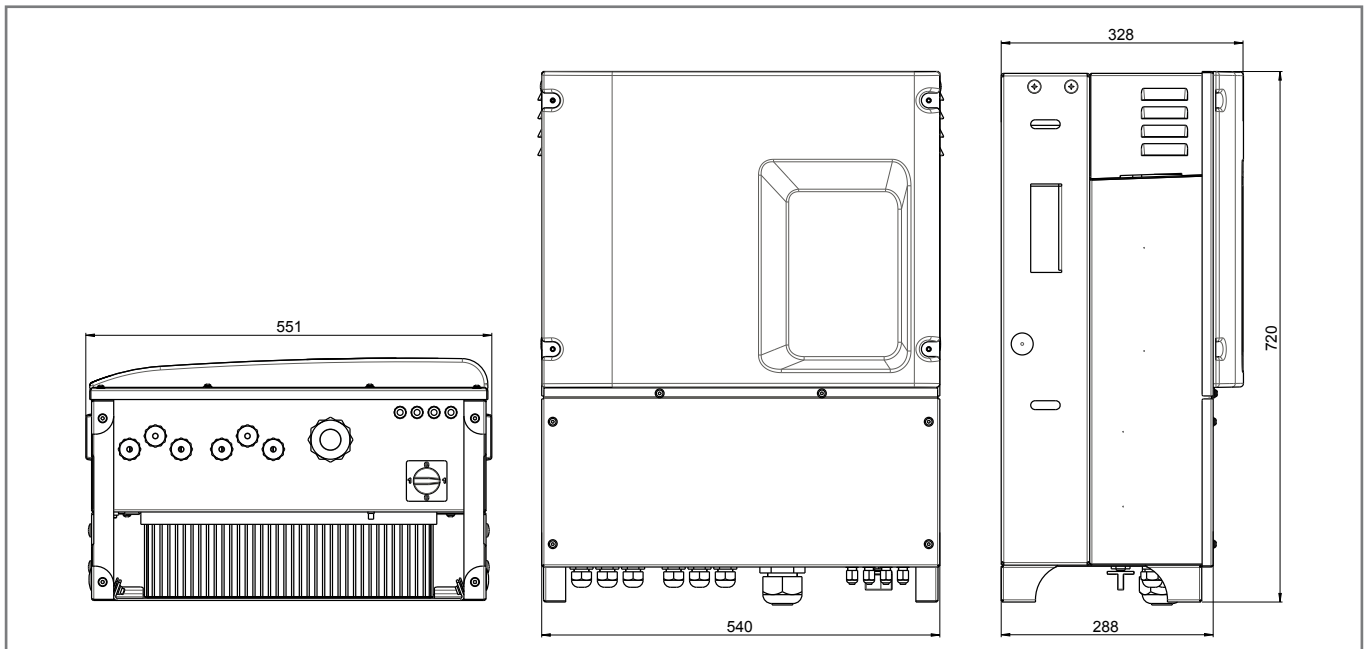


5 years
warranty

APV-S-20k-EE-TL-1 efficiency curve



Dimensions and weight



APV-S- Model		10k-EE-TL-1	15k-EE-TL-1	20k-EE-TL-1
Dimensions (W x H x D): Width x Height x Depth	[mm]	551 x 720 x 328		
	[inches]			
weight	[kg] [lbs]	60,5	66	74

Technical data

String inverter - APV-S- Model			10k-EE-TL-1	15k-EE-TL-1	20k-EE-TL-1
DC INPUT					
Maximum DC voltage	U _{DC max}	[V]	1000		
MPPT range (@ maximum power)		[V]	560 ... 820		
Start-up voltage		[V]	> 200		
Rated DC link voltage	U _{NOM}	[V]	600		
MPPT number	N. MPPT		1	1	1
Number of strings for each MPPT	N.		2	3	4
Maximum DC current per MPPT	I _{DC max}	[A]	20.2	30.4	40.5
Connection type			Standard terminals with pressure spring		
AC OUTPUT					
Rated AC power (from cosphi -0,9 to cosphi 0,9)	P _{NOM AC}	[kW]	10	15	20
AC Rated current / Max current	I _{AC max}	[A]	14.4 / 16	21.6 / 24	28.9 / 32
AC voltage	U _{AC}	[V]	400V 3-phases + Neutral (output voltage range 320 ... 480 ⁽¹⁾)		
Grid frequency	f _{AC}	[Hz]	50/60 (output frequency range 47...53/ 57...63 ⁽¹⁾)		
Grid connection			TN-C / TN-S / TN-C-S / TT		
THDI	THD grid	[%]	≤ 3		
Power factor (settable)	cosphi		± 0.8		
Connection type			Standard terminals with pressure spring		
EFFICIENCY RATING					
Maximum efficiency		[%]	98.4	98.4	98.5
European efficiency (Euro ETA)		[%]	98.1	98.1	98.2
PROTECTIONS					
Interface protection (grid monitor)			Integrated (Excluded models for Italy)		
Anti-Islanding			Integrated (Where required by local regulations)		
Insulation control			Integrated		
Residual current monitoring			Integrated		
Reverse DC polarity protection			Integrated		
AC/DC overvoltage category			Type 3 SPD standard with thermal protection and DC side indication		
DC Injection control			Integrated		
DC circuit breaker (optional)			Circuit breaker under load (-S models)		
DC Fuses and String failure detection (option)			12A fuses on both poles of each string + Current sensors for each string (-F models)		
GENERAL DATA					
Tipo display			2 alphanumeric lines display (KB)		
Tipo di raffreddamento			Natural convection		
Certification			CE; VDE V 0126-1-1, VDE-AR-N 4105; CEI 0-21, CEI 0-16 ed. III; RD 661 – RD1699; South African Grid code, NRS 097-2-1.		

(1) The output voltage and frequency interval may vary according to the network connection standard