

TECHNICAL DATA	100KTL-HV	125KTL-HV	136KTL-HV
DC input technical data			
Maximum DC Power	100000W	125000W	136000W
Maximum DC Power for each MPPT	20000W		
Number of independent MPPTs / Number of strings per MPPT	10/2		12/2
Maximum DC input voltage	1100V		
Activation voltage	200V		
Nominal DC input voltage	680V		
MPPT range of DC voltage	180V-1000V		
DC voltage range at full load	550V-850V		
Maximum input current for each MPPT	26A		
Absolute maximum current for each MPPT	40A		
Maximum current per string **	15A		
AC output technical data			
Rated AC power	100kW	125kW	136kW
Maximum AC power	110kVA	137kVA	150kVA
Maximum AC current per phase	128A	160A	160A
Connection type / Nominal mains voltage	Three-phase 3PH/PE, 288V/500Vac		Three-phase 3PH/PE, 311V/540Vac
Mains voltage range	400Vac~575Vac (according to local grid standards)		432Vac~621Vac (according to local grid standards)
Nominal mains frequency	50Hz/60Hz		
Grid frequency range	45Hz~55Hz / 54Hz~66Hz (according to local grid standards)		
Total harmonic distortion	<3%		
Power factor	1 (programmable +/-0.8)		
Active Power adjustability interval	0~100%		
Efficiency			
Maximum efficiency	98.8%	99.0%	99.0%
Weighted efficiency (EURO)	98.5%	98.5%	98.51%
MPPT efficiency	>99.9%		
Night consumption	<1W		
Protections			
Internal interface protection	No		
Safety protections	Anti islanding, RCMU, Ground Fault Monitoring		
DC reverse polarity protection	Si		
DC disconnect switch	Integrated		
Overheating protection	Yes		
Overvoltage category / Protection class	Overvoltage category III / Protection class I		
Integrated dischargers	AC/DC: Type 2 standard		
Standard			
EMC	EN 61000-6-2/4, EN 61000-3-11/12		
Safety standard	IEC 62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)		
Grid connection standard	AS/NZS 4777, VDE V0124-100, V0126-1-1, VDE-AR-N 4105, BDEW, CEI 0-21, CEI 0-16, UNE 206 007-1, EN50438/EN50549, G59, EN50530, NB/T32004		
Communication			
Communication interfaces	Wi-Fi, GPRS, Ethernet (optional), RS485 (proprietary protocol)		
General data			
Permissible ambient temperature range	-30°C...+60°C (power limitation above 45 °C)		
Topology	Transformer less		
Degree of environmental protection	IP66		
Permitted relative humidity range	0%.....100%		
Maximum operating altitude	4000m		
Noisiness	< 60dB @ 1mt		
Weight	85kg	90kg	92kg
Cooling down	Convection forced by fans		
Dimensions (H * W * D)	693.5mm*995.5mm*368mm		
Display	Led indicators, bluetooth + app		
Guarantee	10 years		

* Possible by connecting antireverse power controller (ZSM-ZEROINJ)

** models with more than two strings for MPPT have internal protection diodes, string currents higher than those reported could cause interruption of the diodes