

INVERTERS

MAX 185-253KTL3-X HV

String inverter · Three-phase · 185 – 253 kW · 4 models


185 – 253 kW

RATED POWER

Three-phase

PHASE

9

MPPT TRACKERS

99 %

MAX. EFFICIENCY

Parameter	Unit	MAX 185KTL3-X HV	MAX 216KTL3-X HV	MAX 250KTL3-X HV	MAX 253KTL3-X HV
PV input					
Max. PV input voltage	V	1500			
Rated PV input voltage	V	1080			
MPPT voltage range	V	500 – 1500			
Start-up voltage	V	500			
Max. input current per MPPT	A	30			
Max. short-circuit current per MPPT	A	50			
Number of MPPT trackers		9		12	15
PV strings per MPPT		2			
AC output					
Rated output power	W	185000	216000	250000	253000
Max. apparent power	VA	185000	216000	250000	253000
Max. AC apparent power vs. ambient temperature		185 kVA @30 °C; 175 kVA @40 °C; 160 kVA @50 °C	216 kVA @30 °C; 200 kVA @40 °C; 192 kVA @50 °C	250 kVA @30 °C; 230 kVA @45 °C; 220 kVA @50 °C	253 kVA @30 °C; 230 kVA @45 °C; 220 kVA @50 °C
Rated AC voltage	V	800			
AC voltage range	V	640 – 920			
Phase		Three-phase			
AC grid connection type		3W+PE			
Rated AC frequency	Hz	50/60			
Rated AC frequency and range		50/60 Hz (45-55 Hz / 55-65 Hz)			
Max. AC output current	A	133.5	155.9	180.4	182.6
Power factor		0.8 leading to 0.8 lagging (adjustable)			
Total harmonic distortion (THDi)	%	<3			

Parameter	Unit	MAX 185KTL3-X HV	MAX 216KTL3-X HV	MAX 250KTL3-X HV	MAX 253KTL3-X HV
Efficiency					
Max. efficiency	%	99			
European efficiency	%	98.5			
MPPT efficiency	%	99.9			
Protection					
Protection functions		DC reverse polarity protection; DC switch; Type II DC surge protection; Type II AC surge protection; Insulation resistance monitoring; AC short-circuit protection; Ground fault monitoring; Grid monitoring; Anti-islanding protection; Residual-current monitoring unit; String monitoring; AFCI protection (optional); Anti-PID function (optional); LVRT; HVRT; Night SVG (optional)			
General data					
Dimensions (W x H x D)	mm	1070 × 675 × 340			
Weight	kg	95		99	109
Ingress protection (IP rating)		IP66			
Operating temperature range	°C	−30 – 60			
Relative humidity	%	0 – 100			
Max. operating altitude	m	4000			
Cooling		Smart air cooling			
Topology		Transformerless			
Night-time power consumption	W	<1			
Warranty	years	5 – 10			
DC connection		H4 / MC4 (optional)			
AC connection		OT terminal connectors (max. 300 mm²)			
Communication					
Display		LED / Wi-Fi + app			
Communication interfaces		RS485; USB; PLC (optional); 4G (optional); GPRS (optional)			
Certifications					
Certifications and standards		CE; IEC 60068; IEC 61683			
Grid codes		IEC 62116; IEC 61727; CEA 2019; EN 50549-2; NC RFG; CEI 0-16			

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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