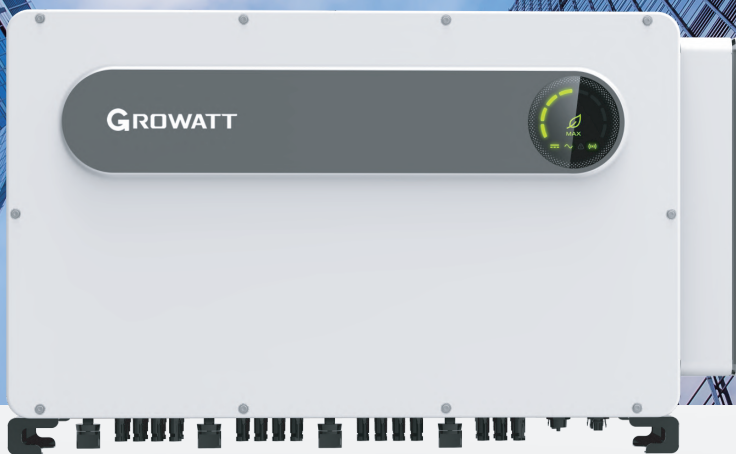


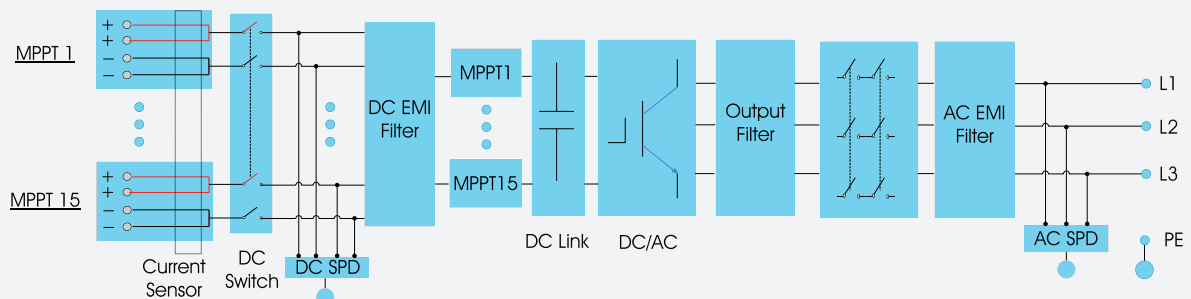


# MAX 185~253KTL3-X HV

- Up to 15 MPPTs, fuse free design
- MAX efficiency 99%, high yield
- Smart I/V scan and diagnosis
- Intelligent string monitoring
- DC side 2 in 1 connection enabled
- Optional Anti-PID/Night SVG/AFCl function
- Data storage up to 25 years



## Topology Diagram





Datasheet	MAX 185KTL3-X HV	MAX 216KTL3-X HV	MAX 250KTL3-X HV	MAX 253KTL3-X HV
<b>Input data (DC)</b>				
Max. DC voltage			1500V	
Start voltage			500V	
Nominal voltage			1080V	
MPP voltage range			500V-1500V	
No. of MPP trackers	9	9	12	15
No. of PV strings per MPP tracker			2	
Max. input current per MPP tracker			30A	
Max. short-circuit current per MPP tracker			50A	
<b>Output data (AC)</b>				
AC nominal power	185KW	216KW	250KW	253KW
Max. AC apparent power	185KVA@30°C 175KVA@40°C 160KVA@50°C	216KVA@30°C 200KVA@40°C 192KVA@50°C	250KVA@30°C 230KVA@45°C 220KVA@50°C	253KVA@30°C 230KVA@45°C 220KVA@50°C
Nominal AC voltage (range*)			800V (640-920V)	
AC grid frequency (range*)			50/60 Hz (45-55Hz/55-65 Hz)	
Max. output current	133.5A	155.9A	180.4A	182.6A
Adjustable power factor			0.8leading ...0.8lagging	
THDI			<3%	
AC grid connection type			3W+PE	
<b>Efficiency</b>				
Max. efficiency			99.0%	
European efficiency	98.7%	98.7%	98.7%	98.5%
MPPT efficiency			99.9%	
<b>Protection devices</b>				
DC reverse polarity protection			Yes	
DC switch			Yes	
AC/DC surge protection			Type II / Type II	
Insulation resistance monitoring			Yes	
AC short-circuit protection			Yes	
Ground fault monitoring			Yes	
Grid monitoring			Yes	
Anti-islanding protection			Yes	
Residual-current monitoring unit			Yes	
String monitoring			Yes	
AFCI protection			Optional	
Anti-PID function			Optional	
LVRT			Yes	
HVRT			Yes	
Night SVG			Optional	
<b>General data</b>				
Dimensions (W / H / D)			1070/675/340mm	
Weight	95kg	95kg	99kg	109kg
Operating temperature range			-30°C ... +60°C	
Nighttime power consumption			< 1W	
Topology			Transformerless	
Cooling			Smart air cooling	
Protection degree			IP 66	
Relative humidity			0-100%	
Altitude			4000m	
DC connection			Staubli MC4/Amphenol UTX	
AC connection			OT Terminal connectors (Max. 300mm <sup>2</sup> )	
Display			LED/WIFI+APP	
Interfaces: RS485/USB / PLC/4G/GPRS			Yes/Yes/Optional/Optional/Optional	
Warranty: 5 years / 10 years			Yes /Optional	
CE, IEC62116/61727, IEC60068/61683, IEC60529, PEA, MEA, VDE0126, Greece, NRS097-2-1:2017, CEA2019				

\* The AC voltage range and frequency range may vary depending on specific country grid standard.  
All specifications are subject to change without notice.