

MID 25~40KTL3-X

- The maximum efficiency is up to 98.8%
- AFCI function ready
- Self-consumption monitoring
- Touch key and OLED display
- Type II SPD on DC and AC side



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Datasheet	MID 25KTL3-X1	MID 30KTL3-X	MID 33KTL3-X	MID 36KTL3-X	MID 40KTL3-X
Input data (DC)					
Max. recommended PV power (for module STC)	37500W	45000W	49500W	54000W	60000W
Max. DC voltage	1100V				
Start Voltage	250V				
Normal Voltage	600V				
MPPT voltage range	200-1000V				
No. of MPP trackers	3	3	3	4	4
No. of PV strings per MPP tracker	2				
Max.input current per MPP tracker	26A				
Max. short-circuit current per MPP tracker	32A				
Output data (AC)					
AC nominal power	25000W	30000W	33000W	36000W	40000W
Max. AC apparent power	27700VA	33300VA	36600VA	39600VA	44000VA
Nominal AC voltage (range*)	220V/380V, 230V/400V (340-440V)				
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)				
Max. output current	41.9A	50.5A	55.5A	60.0A	66.6A
Adjustable power factor	0.8leading...0.8lagging				
THDi	<3%				
AC grid connection type	3W+N+PE				
Efficiency					
Max.efficiency	98.8%				
European efficiency	98.5%				
MPPT efficiency	99.9%				
Protection devices					
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	Yes*				
General data					
Dimensions (W / H / D)	580/435/230mm				
Weight	29.5kg	29.5kg	29.5kg	30.5kg	30.5kg
Operating temperature range	- 25°C ... +60°C				
Nighttime power consumption	< 1W				
Topology	Transformerless				
Cooling	Smart air cooling				
Protection degree	IP66				
Relative humidity	0-100%				
Altitude	4000m				
DC connection	H4/MC4(Optional)				
AC connection	Cable gland+OT terminal				
Display	OLED+LED/WIFI+APP				
Interfaces: RS485 / USB / WIFI/ GPRS / RF/ LAN	Yes/Yes/Optional/Optional/Optional/Optional				
Warranty: 5 years / 10 years	Yes/Optional				
CE, VDE0126, Greece, EN50549, C10/C11, UTE C 15-712, IEC62116,IEC61727, IEC 60068, IEC 61683, CEI0-21, CEI0-16, N4105, TOR Erzeuger, G98/G99, G100, AS/NZS 3100, AS4777, UNE217001, UNE206007, PO12.2, KSC8565					

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

* AFCI function need to be activated after installation.

MAX 50~80KTL3 LV

- 6 / 7 MPPTs, fusefree design
- High efficiency up to 99%
- One-click diagnosis
- String monitoring
- AC&DC type II SPD
- AFCI optional



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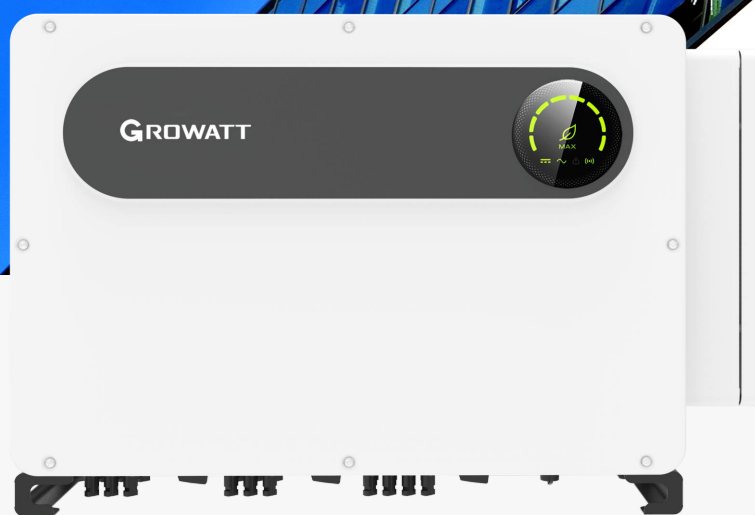
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Datasheet	MAX 50KTL3 LV	MAX 60KTL3 LV	MAX 70KTL3 LV	MAX 80KTL3 LV
Input data (DC)				
Max. recommended PV power (for module STC)	75000W	90000W	105000W	120000W
Max.DC voltage	1100V			
Start voltage	250V			
Nominal voltage	585V	585V	600V	600V
MPPT voltage range	200V-1000V			
No. of MPP trackers	6	6	7	7
No. of PV strings per MPP tracker	2			
Max. input current per MPP tracker	26A			
Max. short-circuit current per MPP tracker	32A			
Output data (AC)				
AC nominal power	50000W	60000W	70000W	80000W
Max. AC apparent power	55500VA	66600VA	77700VA	88800VA
Nominal AC voltage(range*)	220V/380V, 230V/400V (340-440V)			
AC grid frequency(range*)	50/60 Hz (45-55Hz/55-65 Hz)			
Max. output current	80.5A	96.6A	112.7A	128.8A
Adjustable power factor	0.8leading ...0.8lagging			
THDI	<3%			
AC grid connection type	3W+N+PE			
Efficiency				
Max.efficiency	98.8%	98.8%	99%	99%
European efficiency	98.4%	98.4%	98.5%	98.5%
MPPT efficiency	99.9%			
Protection devices				
DC reverse polarity protection	Yes			
DC switch	Yes			
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			
General data				
Dimensions (W / H / D)	860/600/300mm			
Weight	82kg	82kg	86kg	86kg
Operating temperature range	-25°C ... +60°C			
Self-consumption	< 1W			
Topology	Transformerless			
Cooling	Smart air cooling			
Protection degree	IP65			
Relative humidity	0-100%			
Altitude	4000m			
DC connection	H4/MC4(Optional)			
AC connection	Cable gland+OT terminal			
Display	LED/WIFI+APP			
Interfaces: RS485 / USB /WIFI/ RF/GPRS	Yes/Yes /Optional/Optional/Optional			
Warranty: 5 years / 10 years	Yes /Optional			
CE , VDE0126, Greece, EN50438, EN50549-1, C10/C11, UTE C 15-712, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, CEI 0-16, N4105, DRRG, G98/G99, G100, NRS 097-2-1, MEA , PEA , KSC8565				

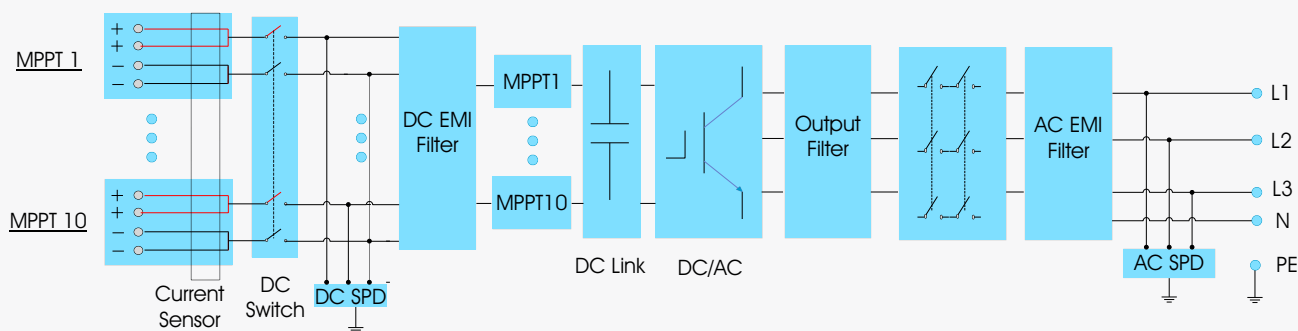
* The AC voltage range and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.

MAX 100~125KTL3-X LV

- 10 MPPTs fusefree design
- Smart I/V scan and diagnosis
- Intelligent string monitoring
- AC&DC type II SPD
- IP66 protection



Topology Diagram

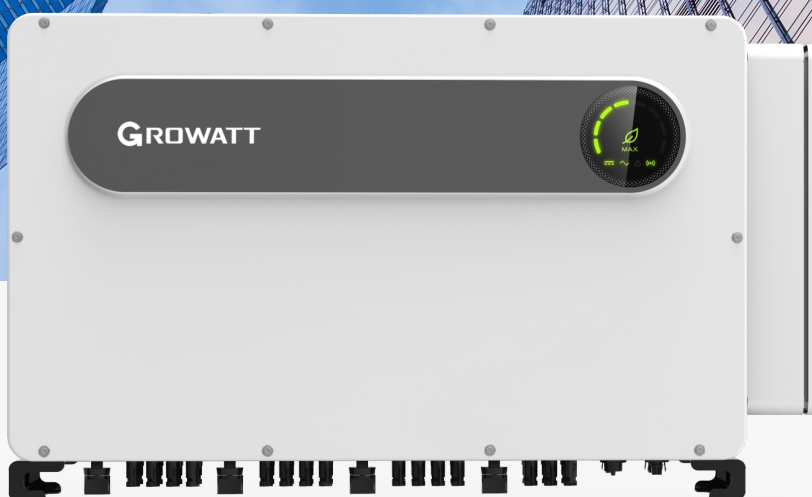


Datasheet	MAX 100KTL3-X LV		MAX 110KTL3-X LV		MAX 120KTL3-X LV		MAX 125KTL3-X LV	
Input data (DC)								
Max. DC voltage					1100V			
Start voltage					195V			
Nominal voltage					600V			
MPP voltage range					180V-1000V			
No. of MPP trackers					10			
No. of PV strings per MPP tracker					2			
Max. input current per MPP tracker					32A			
Max. short-circuit current per MPP tracker					40A			
Output data (AC)								
AC nominal power	100000W		110000W		120000W		125000W	
Max. AC apparent power	110000VA		121000VA		132000VA		137500VA	
Nominal AC voltage (range*)					220V/380V, 230V/400V (340-440V)			
AC grid frequency (range*)					50/60 Hz(45~55Hz/55-65 Hz)			
Max. output current	158.8A@400V 167.1A@380V		174.6A@400V 183.8A@380V		190.5A@400V 200.5A@380V		198.5A@400V 208.9A@380V	
Adjustable power factor					0.8leading ...0.8lagging			
THDi					<3%			
AC grid connection type					3W/N/PE			
Efficiency								
Max. efficiency					98.8%			
European efficiency	98.4%		98.5%		98.5%		98.5%	
MPPT efficiency					99.9%			
Protection devices								
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			
String detection					Yes			
Anti PID function					Optional			
Arc fault detection (AFCI)					Optional			
General data								
Dimensions (W / H / D)					970/640/345mm			
Weight					84kg			
Operating temperature range					-30°C ... +60°C			
Nighttime power consumption					< 1W			
Topology					Transformerless			
Cooling					Smart air cooling			
Protection degree					IP66			
Relative humidity					0~100%			
Altitude					4000m			
DC connection					H4/MC4 (Max.6mm²)			
AC connection					OT Terminal (Max. 240mm²)			
Display					LED/WIFI+APP			
Interfaces: RS485 / USB /PLC/GPRS/4G/WIFI					Yes/Yes/Optional/Optional/Optional/Optional			
Warranty: 5 years / 10 years					Yes /Optional			
CE, UKCA, IEC62116, IEC61727, CQC, VDE0126, VFR2019, EN50549-1/-2, C10/C11, UNE206007, G99 CEI 0-21/0-16, N4105, UNE206006, MEA, PEA, KSC8565								

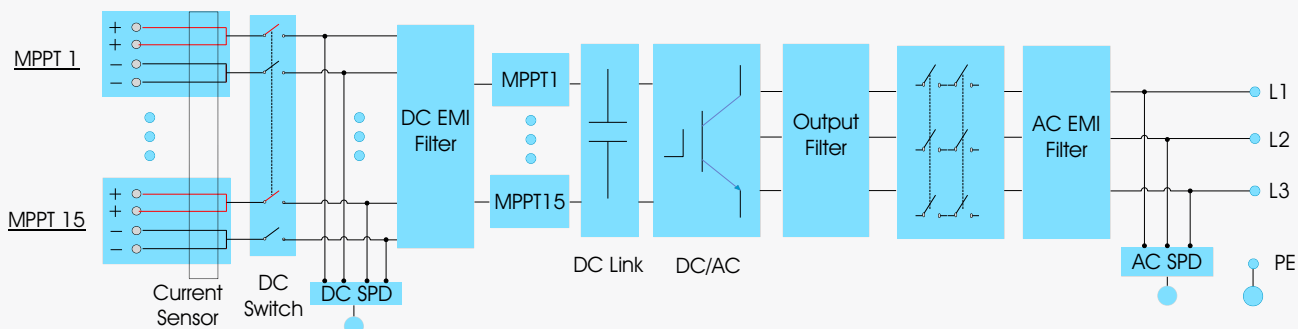
* The AC voltage range and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.

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/AFCI function
- Data storage up to 25 years



Topology Diagram

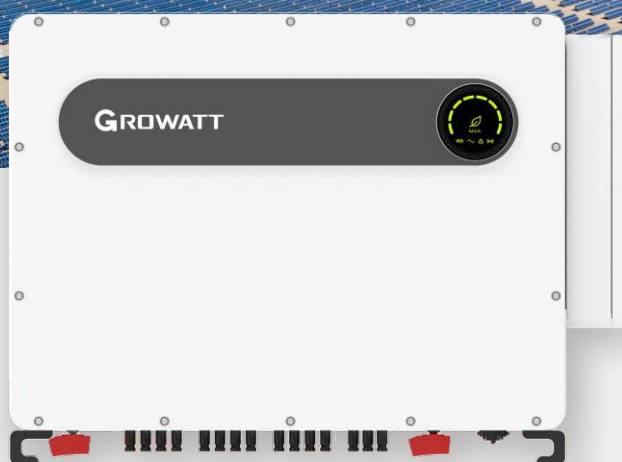


Datasheet	MAX 185KTL3-X HV		MAX 216KTL3-X HV		MAX 250KTL3-X HV		MAX 253KTL3-X HV	
Input data (DC)								
Max. DC voltage	1500V							
Start voltage	500V							
Nominal voltage	1080V							
MPP voltage range	500V-1500V							
No. of MPP trackers	9	9	12	15				
No. of PV strings per MPP tracker	2							
Max. input current per MPP tracker	30A							
Max. short-circuit current per MPP tracker	50A							
Output data (AC)								
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							
Efficiency								
Max. efficiency	99.0%							
European efficiency	98.7%	98.7%	98.7%	98.5%				
MPPT efficiency	99.9%							
Protection devices								
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							
General data								
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	IP66							
Relative humidity	0-100%							
Altitude	4000m							
DC connection	Staubli MC4/Amphenol UTX							
AC connection	OT Terminal connectors (Max. 300mm²)							
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.

MAX 320~350K-X

- Maximum efficiency 99.03%
- Intelligent string breaking, active safety
- MPPT current 80A, adapted to 182/210 components
- String detection and I/V scanning, accurate location of abnormal strings
- IP66 protection level, adaptable to harsh environments
- Supports aluminium wire access, saving AC cable cost



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Datasheet	MAX 320K-X	MAX 333K-X	MAX 350K-X
Input data (DC)			
Max. recommended PV power (for module STC)	480000W	499500W	528000W
Max. DC voltage		1500V	
Start voltage		500V	
Nominal voltage		1080V	
MPP voltage range		500V-1500V	
Max. input current per MPP tracker		80A	
Max. short-circuit current per MPP tracker		100A	
No. of MPP trackers		6	
No. of PV strings per MPP tracker		5	
Output data (AC)			
AC nominal power	320000W	333000W	352000W
Max. AC apparent power	352000VA	366300VA	352000VA
Nominal AC voltage		800V	
AC output range		640-920VAC	
AC grid frequency (range*)		50/60 Hz(45~55Hz/55~65 Hz)	
Nominal output current	230.9A	240.3A	254A
Adjustable power factor		0.8leading ...0.8lagging	
THDi		< 3%	
AC grid connection type		3W+PE	
Efficiency			
Max. efficiency		99.03%	
European efficiency		98.53%	
MPPT efficiency		99.90%	
Protection devices			
DC reverse polarity protection		Yes	
DC Switch		Yes	
AC/DC surge protection		Type II / Type II	
Insulation resistance monitoring		Yes	
RCD detection		Yes	
Output short circuit protection		Yes	
String fault monitoring		Yes	
Anti -PID function		Optional	
AFCL protection		Optional	
Display/communication			
Display		LED/WIFI+APP	
Interfaces: USB/RS485/GPRS/4G/PLC/WIFI		Yes/Yes/Optional/Optional/Optional	
General data			
Dimensions (W / H / D)		1145/790/371mm	
Weight		126kg	
Operating temperature range		-30°C...+60°C	
Altitude		5000m	
Relative humidity		0~100%	
Nighttime power consumption		< 1W	
Topology		Transformerless	
Cooling		Smart air cooling	
Protection degree		IP66	
Warranty: 5 / 10 years		Yes/Optional	
CE, CB, IEC62116, IEC61727, IEC62910, IEC 61683, IEC60068			