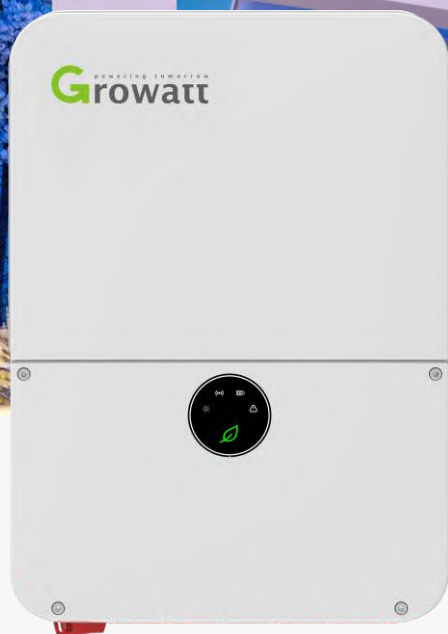


MIN 3000~7600TL-XH-US

- Battery Ready for DC Coupled and AC coupled system
- Support backup power and dark start operations
- With Rapid shutdown solution & AFCI integrated
- Integrated EMS, support multiple energy management modes: self-consumption, zero export, TOU and off-grid
- UL1741SA, CA Rule 21 & HECO compliant
- Built-in 4G/Wi-Fi Comm. with APP, IoT integrated Cloud and monitoring



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Datasheet	MIN 3000TL-XH-US	MIN 3800TL-XH-US	MIN 5000TL-XH-US	MIN 6000TL-XH-US	MIN 7600TL-XH-US
Input Data (PV)					
Max. Recommended PV Power(STC)	6000W	7600W	10000W	12000W	15200W
DC/AC Ratio			2		
Max. DC System Voltage			600V		
Startup Voltage			50V		
Nominal Voltage			360V		
Operating Voltage Range			50~550V		
No. of MPPT	2	2	2	3	3
No. of PV Strings per MPPT	2/2	2/2	2/2	2/2/2	2/2/2
Max. Input Current per MPPT			13.5A		
Max. Short-circuit Current per MPPT			16.9A		
Input/Output Data (Battery)					
I/O Voltage Range			360V~550V		
Nominal DC Voltage			400V		
I/O DC Current			14.3A		
I/O DC Power			5000W		
Battery Technology			LFP		
Battery Capacity per Module			9.9kWh		
Scalability			Up to 2		
Output Data (AC)					
AC Nominal Power@240V AC	3000W	3800W	5000W	6000W	7600W
AC Nominal Power@208V AC	2600W	3290W	4330W	5200W	6580W
Max. AC Apparent Power	3000VA	3800VA	5000VA	6000VA	7600VA
Nominal AC Voltage			208V/240V		
AC Voltage Range @208V AC @240V AC			183V~229V/211V~264V		
AC Grid Frequency			50/60Hz		
AC Grid Frequency Range			45~65Hz		
Max. Output Current	12.5A	16A	21A	25A	32A
Power Factor(@Nominal Power)			>0.99		
Adjustable Power Factor			0.8 Leading~0.8 Lagging		
THDi			<3%		
AC Grid Connection Type			L1/L2/N/PE		
Output Data (Backup)					
AC Nominal Power	3000W	3800W	5000W	5000W	5000W
Max. AC Power Output	3680VA	4000VA	6000VA	6000VA	6000VA
Nominal AC Voltage			240V		
Max. Output Current	16A	16.7A	25A	25A	25A
THD			5%		
Efficiency					
Max. Efficiency		98.0%	98.2%	98.4%	98.4%
CEC Efficiency@240V AC	97.0%	97.0%	97.5%	97.0%	97.5%
CEC Efficiency@208V AC	96.5%	97.0%	97.5%	97.0%	97.0%
Protection Devices					
DC Reverse-polarity Protection			Yes		
DC Switch			Yes		
DC Surge Protection			Type II		
Insulation Resistance Monitoring			Yes		
AC Surge Protection			Type III		
AC Short-circuitS Protection			Yes		
Ground Fault Monitoring			Yes		
Grid Monitoring			Yes		
Anti-islanding Protection			Yes		
Residual-current Monitoring Unit			Yes		
AFCl Protection			Yes		
General Data					
Dimensions (W / H / D)			15.75/22.41/6.98 inch (400/569/170.5mm)		
Weight			32.3lbs (14.65kg)		
Operating Temperature Range			-13°F~-+140°F (-25 °C ~ +60 °C) de-rating above 113°F		
Altitude			9843ft (3000m)		
Internal Consumption at Night			<1W (for PV inverter)/<5W (for storage inverter)		
Cooling			Natural Convection		
Electronics Protection Degree			NEMA4X (IP65)		
Relative Humidity			0~95%		
Interfaces					
RS485			Yes		
WiFi/4G Communication			Optional		
Warranty: 10 Years			Yes(optional for extended 15 and 20 years warranty)		
Revenue Grade Meter			ANSI C12.20 (meet 0.5% accuracy)		
IEEE1547, CA Rule21, Rule14 (HECO Compliant), FCC Part15 Class B, UL1741, UL1741SA,CSA C22.2, UL1699B, UL1741 CRD					

MAX 50~75KTL3-XL 2

- 8 MPPTs y diseño sin fusibles
- Escaneo y diagnóstico inteligente de I/V
- Monitoreo inteligente de cadenas
- SPD tipo II de CA y CC
- Protección IP66 y C5

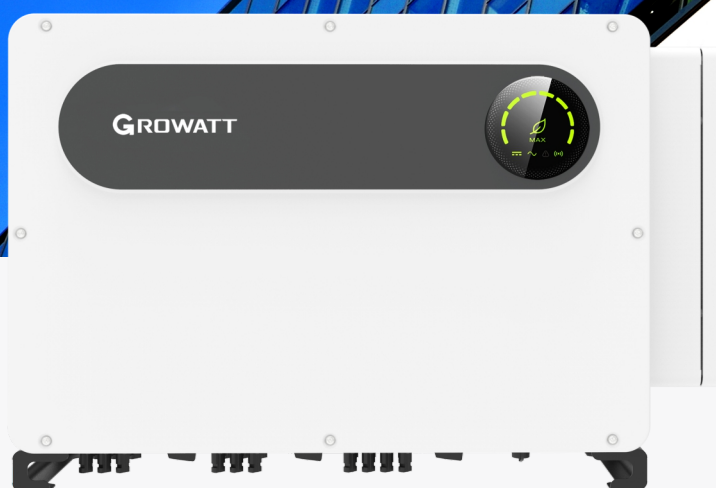
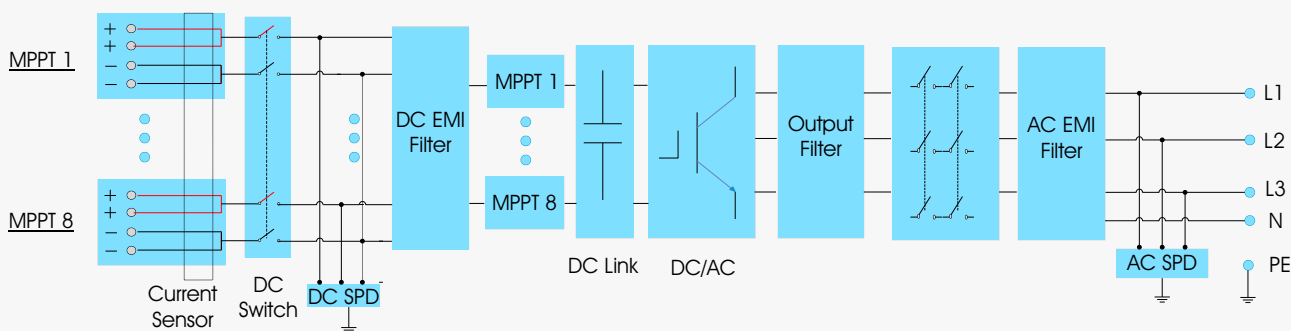


Diagrama unifilar



Especificaciones primarias

Hoja de datos	MAX 50KTL3-XL 2	MAX 60KTL3-XL 2	MAX 70KTL3-XL 2	MAX 75KTL3-XL 2
Datos de entrada (CD)				
Máxima potencia FV recomendada (STC)	100000W	120000W	105000W	112500W
Rango de potencia máxima	370-600V			
Voltaje de arranque	195V			
Voltaje nominal	550V			
Rango de voltaje de MPPT	180V-850VDC			
Número de MPPTs	8			
Cadenas por MPPT	2			
Máxima corriente por MPPT	40A			
Corriente de corto circuito por MPPT	50A			
Salida (CA)				
Potencia nominal CA	50000W	60000W	70000W	75000W
Potencia aparente máxima	55000VA	66000VA	66000VA @208V 70000VA @220V 73000VA @230V	71000VA @208V 75000VA @220V 78400VA @230V
Voltaje nominal CA (Rango*)	127V/220V (101.6-139.7V)			
Frecuencia de red CA (Rango*)	50/60 Hz (45~55Hz/55-65 Hz)			
Corriente máxima de salida	145.8A @220V	175.0A @220V	183.7A @220V	196.9A @220V
Factor de potencia nominal/ ajustable	>0.99 / +0.8 ... -0.8			
Distorsión armónica total	<3%			
Tipo de conexión CA	3W/PE ó 3W/N/PE			
Eficiencia				
Máxima eficiencia	98.80%			
Eficiencia europea	98.30%			
Eficiencia de MPPT	99.90%			
Dispositivos de protección				
Protección de polaridad inversa CD	Sí			
Interruptor CD	Sí			
Protección contra sobretensión CA/CD	Clase II / Clase II			
Monitoreo de resistencia de aislamiento	Sí			
Protección de corto circuito CA	Sí			
Monitoreo de falla a tierra	Sí			
Monitoreo de cadenas	Sí			
Función Anti-PID	Opcional			
AFCI	Sí			
Datos generales				
Dimensiones	970/640/345mm			
Peso	84kg			
Rango de temperatura de operación	-30°C ... +60°C			
Autoconsumo (noche)	< 1W			
Topología	Sin transformador			
Enfriamiento	Enfriamiento Inteligente			
Grado de protección	IP66			
Humedad relativa	0~100%			
Altitud	4000m			
Conexión CD	H4/MC4			
Conexión CA	Conectores de terminales OT (máx. 240 mm²)			
Pantalla	LED/WIFI+APP			
Comunicación: RS485 / USB / WIFI / GPRS / RF / LAN	Sí / Sí / Opcional / Opcional / Opcional / Opcional			
Garantía: 5 años / 10 años	Sí /Opcional			
CE,IEC62116, IEC61727, UI1741 IEEE1547				

* El rango de voltaje y frecuencia de CA puede variar dependiendo del estándar de la red del país.
Todas las especificaciones están sujetas a cambios sin previo aviso.

MAX 50~75KTL3-XL 2

- 8 MPPTs y diseño sin fusibles
- Escaneo y diagnóstico inteligente de I/V
- Monitoreo inteligente de cadenas
- SPD tipo II de CA y CC
- Protección IP66 y C5

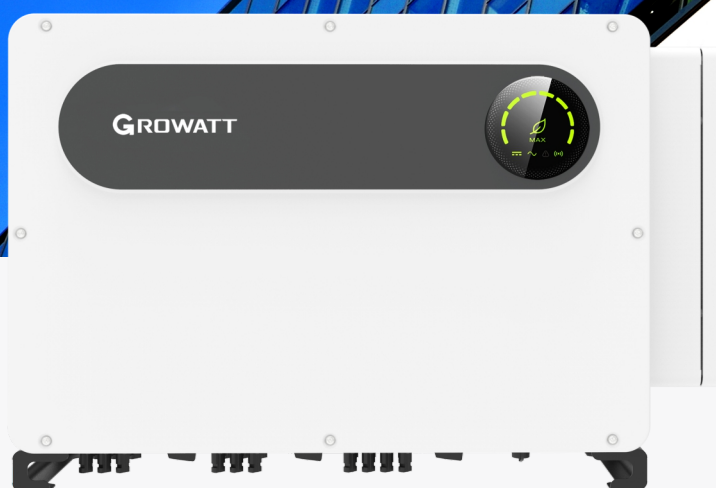
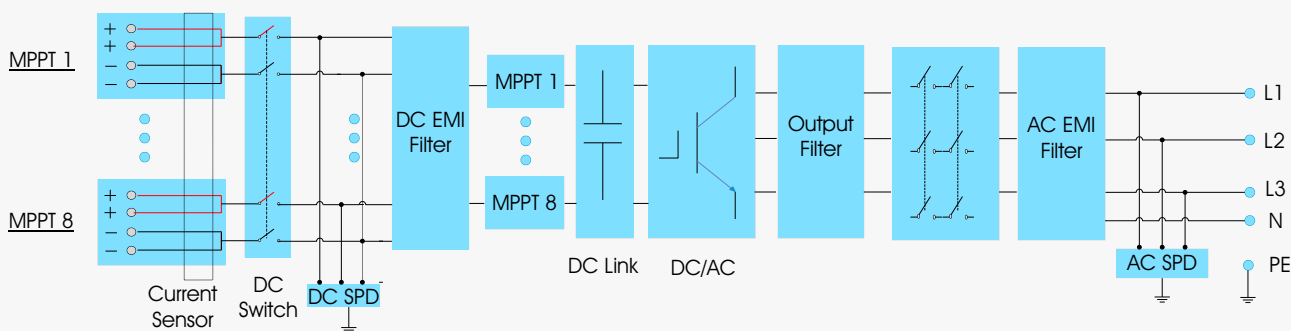


Diagrama unifilar



Especificaciones primarias

Hoja de datos	MAX 50KTL3-XL 2	MAX 60KTL3-XL 2	MAX 70KTL3-XL 2	MAX 75KTL3-XL 2
Datos de entrada (CD)				
Máxima potencia FV recomendada (STC)	100000W	120000W	105000W	112500W
Rango de potencia máxima	370-600V			
Voltaje de arranque	195V			
Voltaje nominal	550V			
Rango de voltaje de MPPT	180V-850VDC			
Número de MPPTs	8			
Cadenas por MPPT	2			
Máxima corriente por MPPT	40A			
Corriente de corto circuito por MPPT	50A			
Salida (CA)				
Potencia nominal CA	50000W	60000W	70000W	75000W
Potencia aparente máxima	55000VA	66000VA	66000VA @208V 70000VA @220V 73000VA @230V	71000VA @208V 75000VA @220V 78400VA @230V
Voltaje nominal CA (Rango*)	127V/220V (101.6-139.7V)			
Frecuencia de red CA (Rango*)	50/60 Hz (45~55Hz/55-65 Hz)			
Corriente máxima de salida	145.8A @220V	175.0A @220V	183.7A @220V	196.9A @220V
Factor de potencia nominal/ ajustable	>0.99 / +0.8 ... -0.8			
Distorsión armónica total	<3%			
Tipo de conexión CA	3W/PE ó 3W/N/PE			
Eficiencia				
Máxima eficiencia	98.80%			
Eficiencia europea	98.30%			
Eficiencia de MPPT	99.90%			
Dispositivos de protección				
Protección de polaridad inversa CD	Sí			
Interruptor CD	Sí			
Protección contra sobretensión CA/CD	Clase II / Clase II			
Monitoreo de resistencia de aislamiento	Sí			
Protección de corto circuito CA	Sí			
Monitoreo de falla a tierra	Sí			
Monitoreo de cadenas	Sí			
Función Anti-PID	Opcional			
AFCI	Sí			
Datos generales				
Dimensiones	970/640/345mm			
Peso	84kg			
Rango de temperatura de operación	-30°C ... +60°C			
Autoconsumo (noche)	< 1W			
Topología	Sin transformador			
Enfriamiento	Enfriamiento Inteligente			
Grado de protección	IP66			
Humedad relativa	0~100%			
Altitud	4000m			
Conexión CD	H4/MC4			
Conexión CA	Conectores de terminales OT (máx. 240 mm²)			
Pantalla	LED/WIFI+APP			
Comunicación: RS485 / USB / WIFI / GPRS / RF / LAN	Sí / Sí / Opcional / Opcional / Opcional / Opcional			
Garantía: 5 años / 10 años	Sí /Opcional			
CE,IEC62116, IEC61727, UI1741 IEEE1547				

* El rango de voltaje y frecuencia de CA puede variar dependiendo del estándar de la red del país.
Todas las especificaciones están sujetas a cambios sin previo aviso.

MAC 50~70KTL3-X LV/MV

- 3 MPPTs
- Smart diagnosis
- High efficiency up to 98.8%
- OLED display and touch button
- AC&DC type II SPD



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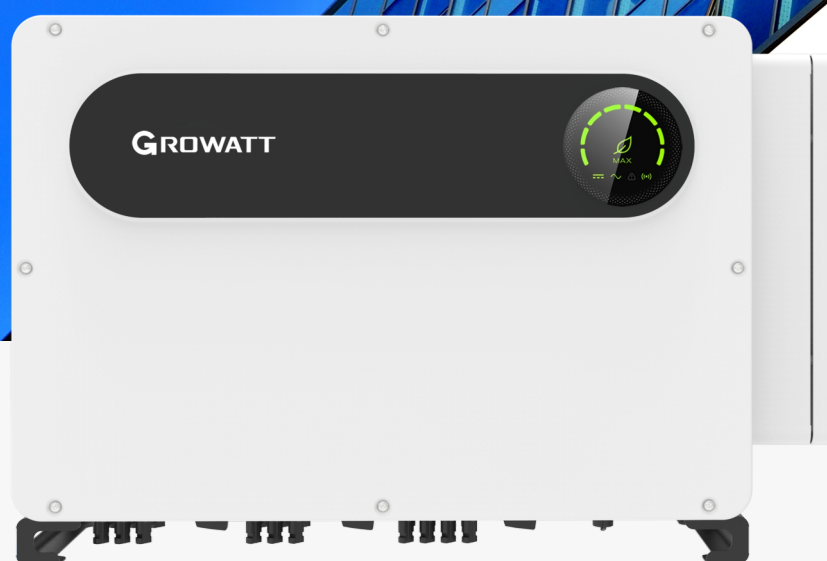
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Datasheet	MAC 50KTL3-X LV	MAC 50KTL3-X MV	MAC 60KTL3-X LV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
Inputu Data(DC)					
Max. recommended PV power(for module STC)	75000W	75000W	90000W	90000W	105000W
Max.DC voltage	1100V				
Start voltage	250V				
Nominal voltage	600V	700V	600V	700V	700V
MPPT voltage range	200V-1000V				
No. of MPP trackers	3				
No. of PV strings per MPP tracker	4/3/3	4/3/3	4/4/4	4/4/4	4/4/4
Max. input current per MPP tracker	52A/39A/39A	52A/39A/39A	52A/52A/52A	52A/52A/52A	52A/52A/52A
Max. short-circuit current per MPP tracker	55A				
Output Data(AC)					
Rated AC output power	50000W	50000W	60000W	60000W	70000W
Max. AC apparent power	55500VA	55500VA	66600VA	66600VA	77700VA
Nominal AC voltage (range*)	230V/400V (340-440V)	277V/480V (425-540V)	230V/400V (340-440V)	277V/480V (425-540V)	277V/480V (425-540V)
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)				
Max. output current	80.5A	66.9A	96.6A	80.2A	93.6A
Adjustable power factor	0.8leading ...0.8lagging				
THDI	<3%				
AC grid connection type	3W+N+PE	3W+PE	3W+N+PE	3W+PE	3W+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				
General Data					
Dimensions(W / H / D)	680/508/281mm				
Weight	52kg				
Operating temperature range	- 25°C ... +60°C				
Nighttime power 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	OLED+LED/WIFI+APP				
Interfaces: RS485 / USB /WIFI/ GPRS / RF	Yes/Yes /Optional/Optional/Optional				
Warranty: 5 years / 10 years	Yes/Optional				
CE, IEC62116, IEC61727, IEC60068, IEC61683, IEEE1547					

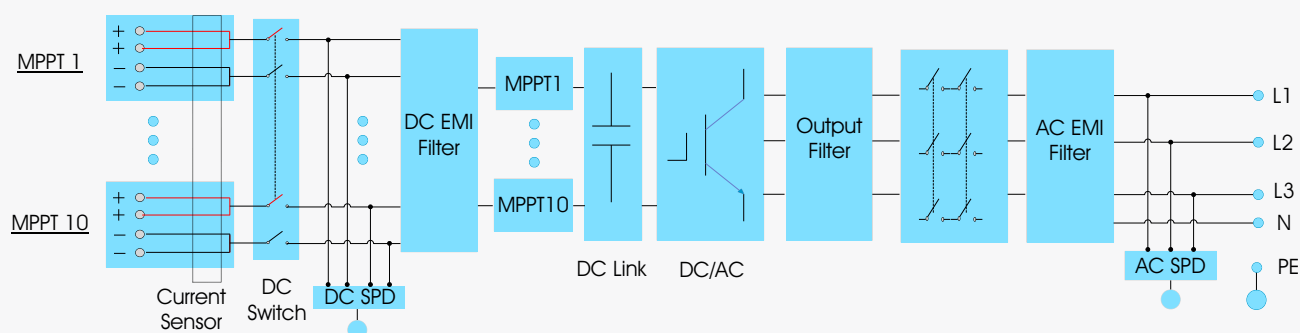
* The AC voltage range and frequency range may vary depending on specific country grid standard.
All specifications are subject to change without notice.

MAX 124~150KTL3-X MV

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



Topology Diagram



Primary Specification

Datasheet	MAX 124KTL3-X MV	MAX 125KTL3-X MV	MAX 136KTL3-X MV	MAX 150KTL3-X MV
Input data (DC)				
Max. recommended PV power (for module STC)	186000W	187500W	204000W	204000W
Max. DC voltage	1100V			
Start voltage	195V			
Nominal voltage	720V			
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	124000W	125000W	136000W	150000W
Max. AC apparent power	136400VA	137500VA	150000VA	165000VA
Nominal AC voltage(range*)	277V/480V 422-528VAC			
AC grid frequency (range*)	50/60 Hz (45~55Hz/59.5-60.5 Hz)			
Max. output current	164.1A	165.4A	179.9A	198.5A
Adjustable power factor	0.8leading ...0.8lagging			
THDi	<3%			
AC grid connection type	3W/N/PE			
Efficiency				
Max. efficiency	99.00%			
European efficiency	98.50%			
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			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
String detection	Yes			
Anti PID function	Opt			
Arc fault detection (AFCI)	Opt			
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 Cooling			
Protection degree	IP66			
Relative humidity	0~100%			
Altitude	4000m			
DC connection	H4/MC4			
AC connection	OT Terminal connectors (Max. 240mm²)			
Display	LED/WIFI+APP			
Interfaces: RS485 / USB /PLC	Yes/Yes /Optional			
Warranty: 5 years / 10 years	Yes /Optional			
CE, IEC62116, IEC61727,ROHS, UL1741, IEEE1547				

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

MAC 50~70KTL3-X LV/MV

- 3 MPPTs
- Smart diagnosis
- High efficiency up to 98.8%
- OLED display and touch button
- AC&DC type II SPD



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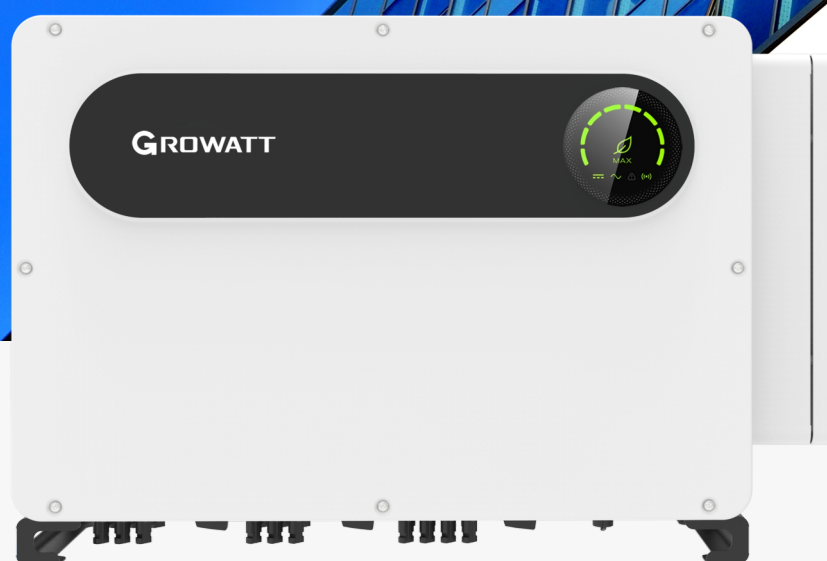
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Datasheet	MAC 50KTL3-X LV	MAC 50KTL3-X MV	MAC 60KTL3-X LV	MAC 60KTL3-X MV	MAC 70KTL3-X MV
Inputu Data(DC)					
Max. recommended PV power(for module STC)	75000W	75000W	90000W	90000W	105000W
Max.DC voltage	1100V				
Start voltage	250V				
Nominal voltage	600V	700V	600V	700V	700V
MPPT voltage range	200V-1000V				
No. of MPP trackers	3				
No. of PV strings per MPP tracker	4/3/3	4/3/3	4/4/4	4/4/4	4/4/4
Max. input current per MPP tracker	52A/39A/39A	52A/39A/39A	52A/52A/52A	52A/52A/52A	52A/52A/52A
Max. short-circuit current per MPP tracker	55A				
Output Data(AC)					
Rated AC output power	50000W	50000W	60000W	60000W	70000W
Max. AC apparent power	55500VA	55500VA	66600VA	66600VA	77700VA
Nominal AC voltage (range*)	230V/400V (340-440V)	277V/480V (425-540V)	230V/400V (340-440V)	277V/480V (425-540V)	277V/480V (425-540V)
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65 Hz)				
Max. output current	80.5A	66.9A	96.6A	80.2A	93.6A
Adjustable power factor	0.8leading ...0.8lagging				
THDI	<3%				
AC grid connection type	3W+N+PE	3W+PE	3W+N+PE	3W+PE	3W+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				
General Data					
Dimensions(W / H / D)	680/508/281mm				
Weight	52kg				
Operating temperature range	- 25°C ... +60°C				
Nighttime power 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	OLED+LED/WIFI+APP				
Interfaces: RS485 / USB /WIFI/ GPRS / RF	Yes/Yes /Optional/Optional/Optional				
Warranty: 5 years / 10 years	Yes/Optional				
CE, IEC62116, IEC61727, IEC60068, IEC61683, IEEE1547					

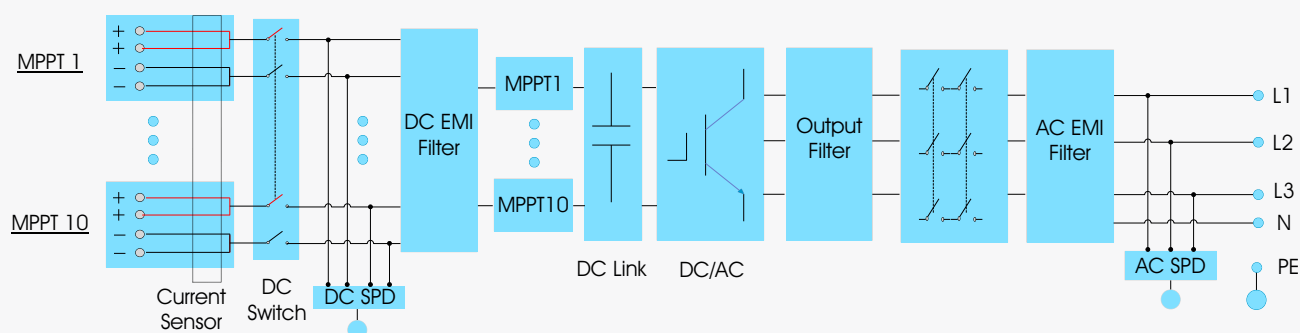
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MAX 124~150KTL3-X MV

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



Topology Diagram



Primary Specification

Datasheet	MAX 124KTL3-X MV	MAX 125KTL3-X MV	MAX 136KTL3-X MV	MAX 150KTL3-X MV
Input data (DC)				
Max. recommended PV power (for module STC)	186000W	187500W	204000W	204000W
Max. DC voltage	1100V			
Start voltage	195V			
Nominal voltage	720V			
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	124000W	125000W	136000W	150000W
Max. AC apparent power	136400VA	137500VA	150000VA	165000VA
Nominal AC voltage(range*)	277V/480V 422-528VAC			
AC grid frequency (range*)	50/60 Hz (45~55Hz/59.5-60.5 Hz)			
Max. output current	164.1A	165.4A	179.9A	198.5A
Adjustable power factor	0.8leading ...0.8lagging			
THDi	<3%			
AC grid connection type	3W/N/PE			
Efficiency				
Max. efficiency	99.00%			
European efficiency	98.50%			
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			
AC short-circuit protection	Yes			
Ground fault monitoring	Yes			
String detection	Yes			
Anti PID function	Opt			
Arc fault detection (AFCI)	Opt			
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 Cooling			
Protection degree	IP66			
Relative humidity	0~100%			
Altitude	4000m			
DC connection	H4/MC4			
AC connection	OT Terminal connectors (Max. 240mm²)			
Display	LED/WIFI+APP			
Interfaces: RS485 / USB /PLC	Yes/Yes /Optional			
Warranty: 5 years / 10 years	Yes /Optional			
CE, IEC62116, IEC61727,ROHS, UL1741, IEEE1547				

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