GROWATT

MID 50-70KTL3-X3 MV

· Maximum string input current 20A

· > 150% DC/AC ratio

· 4/5 MPPT, max. efficiency 98.8%

· Intelligent string monitoring, smart I-V curve scan

· AFCI function ready



POWER-ING TOMO-RROW

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Preliminary Version

Datasheet	MID 50KTL3-X3 MV	MID 60KTL3-X3 MV	MID 70KTL3-X3 MV
Input data (DC)			
Max. recommended PV power	75000W	90000W	105000W
Max. DC input voltage	1100V		
Start voltage	200V		
Nominal input voltage	700V		
MPP voltage range	160-1000V		
Full-load MPPT voltage range (certification)	500-850V		
No. of MPPTs	4	5	
Max. input strings per MPPT	2/2/2/2	2/2/2/2/1	
Max. input currentper MPPT	40A/40A/40A/40A	40A/40A/40A/40A/20A	
Max. short-circuit current per MPPT	50A/50A/50A/50A	50A/50A/50A/50A/25A	
Output Data (AC)			
Rated AC output power	5000W	60000W	70000W
Max. AC apparent power	55500VA	66600VA	77700VA
Nominal AC voltage / range	277V/480V 422-528V		
AC grid frequency / range	50/60 Hz 45~55Hz/55-65 Hz		
Max. output current	66.9A	80.2A	93.6A
Power factor(at rated power)	>0.99		
Adjustable power factor range	0.8 leading ... 0.8 lagging		
Total harmonic distortion (THD)	<3%		
AC grid connection type	3W+N+PE		
Efficiency			
Max. efficiency	98.8%		
European efficiency	98.5%		
Protection			
DC reverse-polarity protection	Yes		
DC switch	Yes		
DC surge protection	Type II		
Insulation-resistance monitoring	Yes		
AC surge protection	Type II		
AC short-circuit protection	Yes		
Ground-fault monitoring	Yes		
Grid monitoring	Yes		
Anti-islanding protection	Yes		
Residual-current monitoring	Yes		
PID detection and recovery	No		
String monitoring	Optional		
Arc-fault circuit interrupter (AFCI)	Optional		
General Data			
Dimensions (W/H/D)	580*435*230mm		
Weight	29.6 kg	30.2 kg	
Operating temperature range	-25°C ... +60°C		
Noise emission	≤55dB(A)		
Max. operating altitude	4000m(derating above 2000 m)		
Topology	Transformerless		
Cooling method	Forced air cooling		
Ingress protection rating	IP66		
Relative humidity	0~100%		
DC terminal type	H4/MC4 (optional)		
AC terminal type	Waterproof PG gland + OT terminal		
Display	LED indicator + OLED WiFi + APP		
USB/RS485	Yes		
WiFi/GPRS/4G/LAN	Optional		
Monitor	ShineWilan-X2 (for single device), ShineMaster4G-X or SEM-XA-R (for parallel devices)		
Warranty	5 years / 10 years(Optional)		
CE,IEC 61683/60068,IEC 62116/61727,RD 1699,INMETRO			

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