

MID 29.9-50K-HU

- DC/AC ratio up to 2
- 3/4 MPP trackers for more flexibility
- Integrated backup function
- Support unbalanced output



P O W E R
- I N G
T O M O R R O W

Datasheet	MID 29.9K-HU	MID 30K-HU	MID 33K-HU	MID 36K-HU	MID 40K-HU	MID 50K-HU
Input data (DC)						
Max. recommended PV power (for module STC)	59800W	60000W	66000W	72000W	80000W	100000W
Max. DC voltage	1000V					
Start Voltage	160V					
Normal Voltage	600V					
MPPT voltage range	200-1000V					
No. of MPP trackers	3	3	3	3	4	4
No. of PV strings per MPP tracker	2					
Max. input current per MPP tracker	40A					
Max. short-circuit current per MPP tracker	50A					
Output data (AC)						
AC nominal power	29.9kW	30kW	33kW	36kW	40kW	50kW
Max. AC apparent power	29.9kVA	33kVA	36.3kVA	39.6kVA	44kVA	50kVA
Nominal AC voltage	220/380V, 230/400V					
AC grid frequency (range*)	50/60 Hz (45-55Hz/55-65Hz)					
Max. output current	45.3A	50A	55A	60A	66.7A	75.8A
Adjustable power factor	0.8leading...0.8lagging					
THDi	<3%					
AC grid connection type	3W+N+PE/3W+PE					
Battery data (DC)						
Battery voltage range	600-980V					
Max. operating current	42A/42A*1					
Compatible battery	APX 5.0-30.0P-S2(5kWh-60kWh), APX 5.0-30.0M-S3(5kWh-90kWh)					
Backup output (AC)						
AC nominal power	30kW*2					
Peak output apparent power	36kVA @10s					
Nominal AC voltage	220/380V, 230/400V					
Max. output current	45.5A					
AC grid frequency	50/60Hz					
THDv	<3%					
Efficiency						
Max. efficiency	98.6%					
European efficiency	97.2%					
Protection devices						
DC reverse polarity protection	Yes					
DC switch	Yes					
AC/DC surge protection	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 fault monitoring	Yes					
AFCI protection	Yes					
General data						
Dimensions (W / H / D)	680/570/256mm					
Weight	48kg				50kg	
Operating temperature range	-25°C ... +60°C					
Noise level	≤55dB (A)					
Max. operating altitude	4000m					
Topology	Transformerless					
Cooling	Smart air cooling					
Protection degree	IP66					
Relative humidity	0~100%					
DC connection	H4/MC4(Optional)					
AC connection	Waterproof PG connector+OT terminal					
Display	OLED+LED/WIFI+APP					
Interfaces: RS485/CAN/USB	Yes					
Monitor: WiLAN-X2/4G-X/ ShineMaster-X	Optional					
Warranty	5/10 years(optional)					
CE, N4105, EN50549-1, C10/C11, CEI 0-21, G99, G100						

*1 When used with APX 5.0-30.0P-S2, only up to two clusters can be connected, and the Max. operating current of each cluster is 25A.

*2 The backup capacity is related to the capacity of the battery. When used with APX 5.0-30.0P-S2, the Max. backup output is 30kW.

*SHENZHEN GROWATT NEW ENERGY CO.,LTD All rights reserved. Subject to change without notice.