

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 O
T O M O -
R R O W O

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 (5-60kWh)			
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.

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