

Mini 4G

1000 W - 3000 W



SWAT
SOLAR

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DATASHEET

Model	SWAT mini-1000-4G	SWAT-mini-1500-4G	SWAT-mini-2000-4G	SWAT-mini-2500 4G	SWAT-mini-3000-4G
Energy Source	PV				
Input Side(DC)					
Max. DC input power(kW)	1.2	1.8	2.3	3	3.5
Max. DC input voltage(V)	600				
Start- up voltage (V)	60		90		
MPPT voltage range(V)	50- 550		80- 550		
Max. input current per MPPT(A)	11A				
MPPT number/ Strings per MPPT input	1/ A:1				
Output Side (AC)					
Rated output power(kW)	1	1.5	2	2.5	3
Max. apparent output power(kVW)	1.1	1.7	2.2	2.8	3.3
Max. output power(kW)	1.1	1.7	2.2	2.8	3.3
Rated grid voltage(VLL)	220/ 230				
Grid voltage range(V)	160-285				
Rated grid frequency(Hz)	50/ 60				
Operation phase	L/ N/ PE				
Rated grid output current(A)	4.5/ 4.3	6.8/ 6.5	9.1/ 8.7	11.4/ 10.9	13.6/ 13
Max. output current (A)	5.2	8.1	10.5	13.3	15.7
Power Factor (at rated output power)	0.8 leading.... 0.8 lagging				
THDi (at rated output power)	< 1.5%In				
DC injection current (mA)	< 0.5%In				
Grid frequency=y range (Hz)	47-52 or 57-62				
Efficiency					
Max. efficiency	97.2%		97.5%		
EU efficiency	96.5%		96.5%		
MPPT efficiency	>99.5%				
Protection					
DC reverse- polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Yes				
General Data					
Dimensions (mm)	310W * 373H * 160D				
Weight(kg)	7.4		7.7		
Topology	Transformer less				
Self consumption (night)	<1W(Night)				
Operating ambient temperature range	-25-60C				
Ingress protection	Ip65				
Noise emission (typical)	<20 dBA				
Cooling concept	Natural convection				
Max. operation altitude	4000m				
Designed lifetime	>20 years				
Grid connection standard	EN50438, G83/2, AS4777.2:2015, VDE0126-1-1, IEC61727, V-E N 4105				
Relative humidity	0-100%				
Safety/ E.C. standard	IEC62109-1/-2, NB/T 32004, EN61000-6-1, EN61000-6-3				
Features					
DC connection	MC-4 mateable				
AC connection					