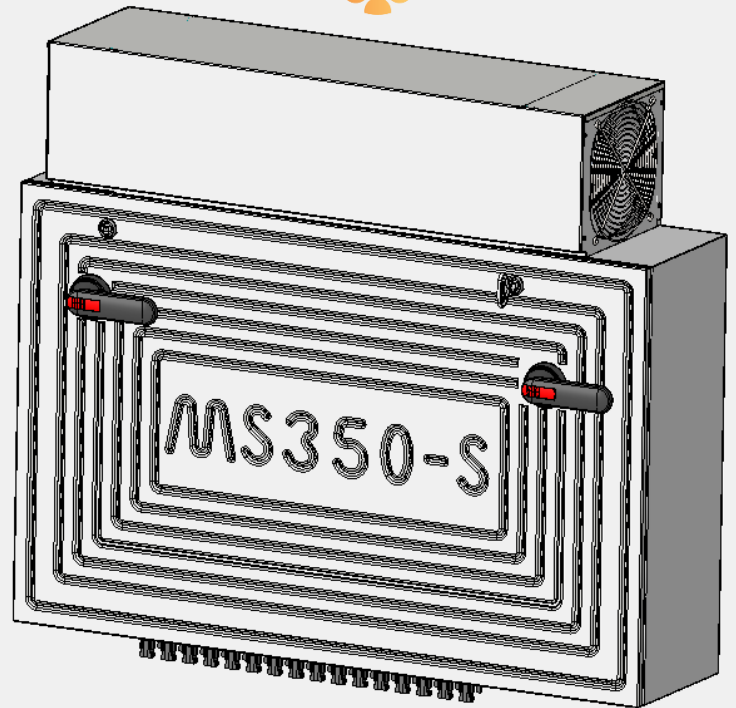


# MS 350

Multi-MPPT String Inverter for 1500 Vdc System



## High Yield

- 16 MPPTs with max. efficiency 99%
- 30A per MPPT, compatible with 500Wp+ module 2 per MPPT
- Compatible with tracker system

## Low Cost

- Power line communication (PLC)
- Smart I-V Curve diagnosis
- Integrated AC Switch
- 1000VAC output – significantly reduced wire sizes

## Grid Support

- $SCR \geq 1.15$  allows stable operation in extremely weak grid
- Reactive power response time  $< 30\text{ms}$
- Compliant with global grid code
- UL-1741

## Safety

- 2 strings per MPPT, full reverse polarity protection
- 24h real-time AC and DC insulation monitoring



Type Designation	MS-350	MS-350(333)	MS-350(330)
<b>Input (DC)</b>			
Max. PV input voltage	1500V		
Min. PV input voltage	500V		
Nominal PV input voltage	1080V		
MPP voltage range	500V-1500V		
No. of independent MPP inputs	16		
Number of input connector per MPPT	2		
Max. PV input current	30A/16		
Max. DC short-circuit current per MPPT	60A		
<b>Output (AC)</b>			
AC output power @ 40°C	345 kVA	333kVA	330kVA
AC output power @ 50°C	320kVA		
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz		
THD	< 3 % (at nominal power)		
DC current injection	< 0.5 % In		
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging		
Feed-in phases / Connection phases	3 / 3		
<b>Efficiency</b>			
Max. efficiency / European efficiency	99.2% / 98.9%		
<b>Protection</b>			
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
Ground fault monitoring	Yes		
DC switch / AC switch	MC4 connector / Yes		
PV string current monitoring	Yes		
Q at night function	Yes		
Surge protection	DC Type II / AC Type II		
<b>General Data</b>			
Dimensions (W*H*D)	1000mm x 850mm x 250mm		
Weight	110kg		
Isolation method	Transformerless		
Degree of protection	IP66		
Power consumption at night	6W		
Operating ambient temperature range	-40°C-60°C		
Allowable relative humidity range	0%-100%		
Cooling method	Redundant forced cooling		
Max. operating altitude	4000 m (> 3000 m derating)		
Display, Communication	Bluetooth+APP, Power Line Comm(PLC)		
DC connection type	MC4-Evo2 (Max. 10AWG)		
AC connection type	Terminal (Max. 750 MCM)		
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683		
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control, Q-U control, P-f control		