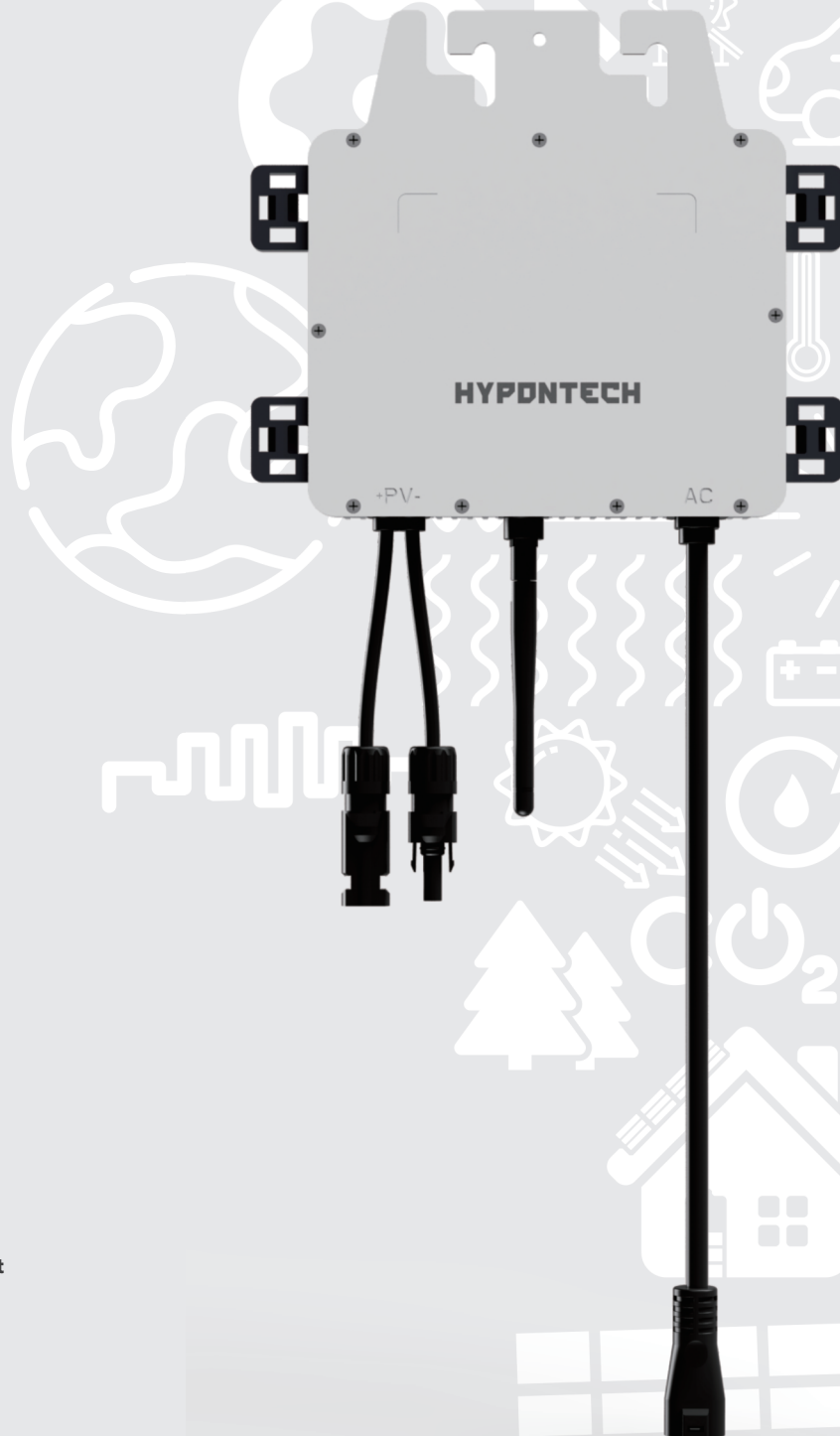




micro+

# HMS

350-500W  
SINGLE PHASE 1MPPT



 Peak Efficiency  
**96.5 %**

 Maximum 15A  
PV Input Current

 Protection Class  
IP67

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# HMS

MODEL	HMS-350W	HMS-400W	HMS-450W	HMS-500W
<b>PV INPUT</b>				
Recommended power of PV modules / W	320-470 (1 Piece)	350-540	400-600	450-600
Max.input voltage / V	60	60	60	60
Start up voltage / V	16	16	16	16
MPP voltage range / V	25-55	25-55	25-55	25-55
Max. input current / A	15	15	15	15
Max. short current / A	20	20	20	20
<b>AC OUTPUT</b>				
Rated AC power / W	350	400	450	500
Rated grid frequency / Hz	50/60	50/60	50/60	50/60
Rated grid voltage / V	220/230/240	220/230/240	220/230/240	220/230/240
Max.AC output current / A	1.59/1.52/1.46	1.82/1.74/1.67	2.05/1.96/1.86	2.27/2.17/2.08
Power factor	>0.99%	>0.99%	>0.99%	>0.99%
Total harmonic distortion(THDi, rated power)	<3%	<3%	<3%	<3%
Grid connection	L-N-PE	L-N-PE	L-N-PE	L-N-PE
Maximum units per branch (12AWG)	15	13	11	10
<b>EFFICIENCY</b>				
MPPT efficiency / %	>99.9%	>99.9%	>99.9%	>99.9%
Max. efficiency / %	96.5%	96.5%	96.5%	96.5%
<b>PROTECTION</b>				
Anti-islanding protection	Integrated	Integrated	Integrated	Integrated
PV string input reverse polarity protection	Integrated	Integrated	Integrated	Integrated
Output over current protection	Integrated	Integrated	Integrated	Integrated
Output short protection	Integrated	Integrated	Integrated	Integrated
Over voltage protection	Integrated	Integrated	Integrated	Integrated
<b>GENERAL</b>				
Dmensions(W*H*D) / mm	230*196*32.5	230*196*32.5	230*196*32.5	230*196*32.5
Weight / Kg	1.75	1.75	1.75	1.75
Noise emmison / dB	20	20	20	20
User interface	LED	LED	LED	LED
DC connection type	MC4	MC4	MC4	MC4
AC connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector
Communication	Wi-Fi	Wi-Fi	Wi-Fi	Wi-Fi
Cooling method	Natural	Natural	Natural	Natural
Operating ambient temperature range / °C	-40~+65	-40~+65	-40~+65	-40~+65
Allowable relative humidity range / %	0 - 100	0 - 100	0 - 100	0 - 100
Max. operating altitude / m	3000 (>3000 Derating)	3000 (>3000 Derating)	3000 (>3000 Derating)	3000 (>3000 Derating)
Degree of protection	IP67	IP67	IP67	IP67
Climatic category (IEC 60721-3-4)	4K4H	4K4H	4K4H	4K4H
Topology	High frequency isolated	High frequency isolated	High frequency isolated	High frequency isolated
Power consumption at night / W	<50mW	<50mW	<50mW	<50mW
<b>STANDARD</b>				
Safety	IEC62109-1/ICE62109-2 / IEC61727	IEC62109-1/ICE62109-2 / IEC61727	IEC62109-1/ICE62109-2 / IEC61727	IEC62109-1/ICE62109-2 / IEC61727
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3
Cetification	EN50549-1, VDE0128-1-1, VDE 4105, RD1699, UNE 206006 IN	EN50549-1, VDE0128-1-1, VDE 4105, RD1699, UNE 206006 IN	EN50549-1, VDE0128-1-1, VDE 4105, RD1699, UNE 206006 IN	EN50549-1, VDE0128-1-1, VDE 4105, RD1699, UNE 206006 IN