

everything⁺

HPS

3-6.5K
SINGLE PHASE 2MPPTS



Peak Efficiency
98 %



Max. DC Overload
40 %



Aluminum Alloy
Die Casting



MES + FCT + CRM
Infrastructure



Easy to Install and
Service

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EN 20241210

MODEL	HPS-3000	HPS-3680	HPS-4000	HPS-5000	HPS-6000	HPS-6500
PV INPUT						
Max. PV Power / W	5152	5152	6160	7000	7800	8125
Max. Input Voltage / V	600	600	600	600	600	600
MPP Voltage Range / V	80-520	80-520	80-520	80-520	80-550	80-550
Start Up Voltage / V	70	70	70	70	70	70
Rated Input Voltage / V	360	360	360	360	360	360
Max. Input Current / A	13/13	13/13	13/13	13/13	13/13	13/13
Max. Short Circuit Current / A	20/20	20/20	20/20	20/20	20/20	20/20
No. of MPPTs/No. Strings Per MPPT	2/1	2/1	2/1	2/1	2/1	2/1
AC OUTPUT						
Rated Power / W	3000	3680	4000	5000	6000	6500
Max. Apparent AC Power / VA	3300	3680	4400	5500	6000	6600
Rated Grid Voltage / Vac	220/230/240	220/230/240	220/230/240	220/230/240	220/230/240	220/230/240
Grid Connection	L-N-PE	L-N-PE	L-N-PE	L-N-PE	L-N-PE	L-N-PE
Rated Grid Frequency / Hz	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current / A	15	16	20	23	27.3	29.6
Power Factor	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap	0.8ind - 0.8cap
THDi @ Rated Power	<3%	<3%	<3%	<3%	<3%	<3%
EFFICIENCY						
Max. Efficiency	97.8%	97.9%	97.9%	97.9%	98.0%	98.0%
Euro. Efficiency	97.3%	97.4%	97.4%	97.4%	97.5%	97.5%
MPPT Efficiency	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%	>99.9%
PROTECTION FUNCTION						
Anti-Islanding Protection	Integrated					
PV String Input Reverse Polarity Protection	Integrated					
Insulation Resistance Detection	Integrated					
Residual Current Monitoring Unit	Integrated					
Output Over Current Protection	Integrated					
Output Short Circuit Protection	Integrated					
Over Voltage Protection	Integrated					
Surge Protection	DC : Optional / AC : Type II					
GENERAL DATA						
Dimensions (W*H*D) / mm	395*328*154					
Weight / kg	9.8	9.8	9.8	9.8	10	10
Noise Emission (Typical) / dB(A)	<20					
User Interface	LCD&LED					
PV Connection Type	MC4 (D4, SUNCLIX, H4 optional)					
AC Connection Type	Plug-in Connector					
Communication	RS485/Wi-Fi/4G/LAN (optional)					
Cooling Method	Natural Cooling					
Operating Ambient Temperature / °C	-25 ~ +60					
Relative Humidity / %	0-100					
Max. Operating Altitude / m	3000 (>3000 Derating)					
Protection Class	IP65					
Climatic Category (IEC 60721-3-4)	4K4H					
Topology	Transformerless					
Night Consumption / W	<1					