

Aerosharp Inverters

Harness Power from the sun • Produce Solar Energy • Lower Carbon Emissions

FEATURES

- ☀ Sealed stainless steel enclosure designed and certified for IP65 protection level
- ☀ Suitable for both outdoor and indoor installation
- ☀ Isolation transformer between the inverter electronics and the utility grid for safety and reliability yet maintains very high conversion efficiency
- ☀ Plug-in connection for all DC input, AC output and communication cables, very easy field wiring
- ☀ Independent MPPT channels for PV module strings of different characteristics to maximize the yields of a system
- ☀ Proper power size and input voltage range for each input MPPT channel, very easy system integration with a single string for each MPPT channel
- ☀ Transient voltage suppressor at both input and output terminals to protect the inverter from transient high voltages induced by lightning or other sources



HR-INV-X01-010



HR-INV-X01-015



HR-INV-X01-020 / 028 / 030



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X01 SERIES INVERTER SPECIFICATIONS

INPUT	HR-INV-X01-010	HR-INV-X01-015	HR-INV-X01-020	HR-INV-X01-028
Recommended Input PV Power (W)	1250	1875	2500	3500
Max. DC Input Power (W)	1200	1755	2350	3270
MPPT Voltage Range (Vdc)	150 - 400	150 - 400	150 - 400	150 - 400
Max. Input DC Current (Adc)	6	10	6 + 6	10 + 10
Number of Input Connections (pair)	1	1	2	2
Input Transient Voltage Suppression	Yes	Yes	Yes	Yes
Earth Fault Detection and Indication	Yes	Yes	Yes	Yes
Opposite Polarity Protection	Yes	Yes	Yes	Yes

OUTPUT

Max. Output AC Power (VA)	1100	1650	2200	3080
Nom. Output AC Power (VA)	1000	1500	2000	2800
Power Factor	> 0.99	> 0.99	> 0.99	> 0.99
Output Current THD	< 4%	< 4%	< 4%	< 4%
Nom. Grid Voltage (Vrms)	220 / 230 / 240 50Hz	220 / 230 / 240 50Hz	220 / 230 / 240 50Hz	220 / 230 / 240 50Hz
Max. Output AC Current (Arms)	5.0	7.0	10.0	15.0
Transformer Isolation Between System and Grid	Yes	Yes	Yes	Yes
Output Transient Voltage Suppression	Yes	Yes	Yes	Yes

POWER EFFICIENCY (With Isolation)

Max Efficiency	> 93.5 %	> 94 %	> 94.0 %	> 94.5 %
European Efficiency	> 91.5 %	> 92 %	> 92.5 %	> 93.0 %

PACKAGING

Enclosure	IP65, for indoor and outdoor installation	IP65, for indoor and outdoor installation	IP65, for indoor and outdoor installation	IP65, for indoor and outdoor installation
Weight (kg)	22.5	27	36.5	42.5
Dimension (H x W x D. mm)	326x375x205	344 x 415 x 205	370 x 525 x 225	370 x 525 x 225

ENVIRONMENT

Operation Ambient Temperature (°C)	- 25~ +50	-25~ +50	-25~ +50	-25~ +50
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X01 SERIES INVERTER SPECIFICATIONS

INPUT	HR-INV-X01-030
Recommended Input PV Power (W)	3750
Max. DC Input Power (W)	3500
MPPT Voltage Range (Vdc)	150 - 400
Max. Input DC Current (Adc)	10 + 10
Number of Strings (pair)	2
Input Transient Voltage Suppression	Yes
Earth Fault Detection and Indication	Yes
Opposite Polarity Protection	Yes

OUTPUT

Max. Output AC Power (VA)	3300
Nom. Output AC Power (VA)	3000
Power Factor	> 0.99
Output Current THD	> 4%
Nom. Grid Voltage (Vrms)	220 / 230 / 240 50Hz
Max. Output AC Current (Arms)	15.0
Transformer Isolation Between System and Grid	Yes
Output Transient Voltage Suppression	Yes

POWER EFFICIENCY (With Isolation)

Max Efficiency	> 94.5 %
European Efficiency	> 93.0 %

PACKAGING

Enclosure	IP65, for indoor and outdoor installation
Weight (kg)	42.5
Dimension (H x W x D. mm)	370 x 525 x 225

ENVIRONMENT

Operation Ambient Temperature (°C)	- 25~ +50
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