

Happy Energy for the Future!

Hyundai Solar Inverters

Internationally Recognized Clean Energy Solution



HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

HYUNDAI HEAVY INDUSTRIES

HYUNDAI; Leading Green Company

Hyundai is designing and developing Solar Inverters. We focus on researching, designing, developing and manufacturing Solar Inverters for world market.

We will continuously try to give customers full satisfaction with high level of service and product performance.

HYUNDAI Solar Inverter; Global Standard Application

Hyundai's marketing and sales target are worldwide. We acquired variety of certificates for major European and Asian countries.

Customers can experience global standard Solar Inverter performance by choosing Hyundai Solar Inverter.

Total Solar Solution; Full Line-Up

Hyundai is providing total solution for solar power plant including Solar Inverter, Solar Module and Solar Monitoring System.

Customers can experience the utmost solar power plant performance through Hyundai's optimized total solar solution.

Transformer-less Type →



HPC-004SL



HPC-100HL-E



HPC-125HL-E



HPC-250HL-E



HPC-500HL-E



← Low-Frequency Transformer Type



HPC-050HT-E



HPC-100HT-E



HPC-250HT-E



Solar Station 500 kW



Solar Station 1 MW

HYUNDAI Solar Inverters

Clean, Renewable, Reliable Solar Energy

Power Conversion System (Inverter) converts DC power produced by solar arrays into AC power.

Solar Inverters are consisted of three parts: DC/DC Converter, Power Stack, and Controller.

Grid-Tied Solar Inverters have been developed using the most advanced technology and design techniques.



► Features

- Compact design, lightweight, and easy to install
- Maximum efficiency with high performance MPPT control
- Increased flexibility due to a wide range of MPPT tracking
- Remote and local data monitoring
- LCD display of operating status
- Anti-islanding protection
- Issued CE and TÜV certificate, ENEL 2009 certificate, MEA & PEA (Thailand) certificate, RD1663 certificate (50 kW, 100 kW and 250 kW class)
- Support 5 year standard warranty + 20 year extended warranty



Technical Specifications & Product Overview

| Transformer-less Type |

Model		Specifications				
		HPC-004SL (for Japan)	HPC-100HL-E	HPC-125HL-E	HPC-250HL-E	HPC-500HL-E
System Overview	Phase	1-Phase	3-Phase	3-Phase	3-Phase	3-Phase
	Output Operating Method	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter
	Design Concept	Transformer-less				
Input Data	Max. Input Voltage	380 Vdc	880 Vdc	880 Vdc	900 Vdc	900 Vdc
	Nominal Voltage	250 Vdc	635 Vdc	635 Vdc	650 Vdc	650 Vdc
	MPPT Voltage Range	100~380 Vdc	450~820 Vdc	450~820 Vdc	450~820 Vdc	450~820 Vdc
	Max. Input Current	25 Adc	234 Adc	292 Adc	625 Adc	1,140 Adc
Output Data	Nominal AC Power	4 kW	100 kW	125 kW	250 kW	500 kW
	Nominal AC Voltage	202 V, ±12 V	290 V, +10 %/-12 %		270 V, +10 %/-12 %	
	Nominal AC Current	19.8 A	199 A	249 A	540 A	1,070 A
	Nominal AC Frequency	50 Hz/60 Hz				
	THD of AC Current	< 5 % Total (< 3 % Individual) at rated power				
System Specifications	Max. Efficiency	95.6 %	98.5 %	98.5 %	98.5 %	98.6 %
	European Efficiency	94.9 %	97.7 %	97.7 %	97.6 %	98.2 %
	Power Factor	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99
	Protection Degree	IP20	IP20	IP20	IP20	IP20
	Operating Temperature	-10°C~ 40°C	-10°C~ 40°C	-10°C~ 40°C	-20°C~ 45°C	-20°C~ 45°C
Dimensions	Width/Depth/Height [mm]	480/120/280	1,000/800/2,095	1,000/800/2,095	1,800/750/2,150	2,600/800/2,080
	Weight	14 kg	620 kg	620 kg	1,120 kg	1,550 kg
	Protective Functions	DC Over-/Under-Voltage, AC Line Over-/Under-Voltage, AC Line Frequency Failure, AC Line Failure, Anti-Islanding Protection, Overheating				

※ Specifications subject to change without prior notice.

Technical Specifications & Product Overview

| Low-Frequency Transformer Type |

Model		Specifications				
		HPC-050HT-E	HPC-100HT-E	HPC-250HT-E	Solar Station	
					HPS-500MT-E	HPS-1000MT-E
System Overview	Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase
	Output Operating Method	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter	Grid-Tied Inverter
	Design Concept	Low-Frequency Transformer			Medium Voltage Transformer	
Input Data		[Δ -Y]	[Δ -Y]	[Y- Δ]		
	Max. Input Voltage	650 Vdc	650 Vdc	880 Vdc	900 Vdc	900 Vdc
	Nominal Voltage	450 Vdc	450 Vdc	635 Vdc	650 Vdc	650 Vdc
	MPPT Voltage Range	300~600 Vdc	300~600 Vdc	450~820 Vdc	450~820 Vdc	450~820 Vdc
Output Data	Max. Input Current	175 Adc	350 Adc	580 Adc	2 x 625 Adc	2 x 1,140 Adc
	Nominal AC Power	50 kW	100 kW	250 kW	500 kW	1,000 kW
	Nominal AC Voltage	400 V, +10 % /-12 %			20 kV, +10 % /-12 %	
	Nominal AC Current	72 A	144 A	361 A	14.4 A	28.9 A
	Nominal AC Frequency	50 Hz / 60 Hz				
System Specifications	THD of AC Current	< 5 % Total (< 3 % Individual) at rated power				
	Max. Efficiency	95.8 %	96.7 %	96.9 %	97.0 %	97.0 %
	European Efficiency	95.0 %	96.3 %	96.2 %	96.5 %	96.5 %
	Power Factor	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99
	Protection Degree	IP20	IP20	IP20	IP54	IP54
Dimensions	Operating Temperature	-10°C~40°C	-10°C~40°C	-20°C~40°C	-20°C~45°C	-20°C~45°C
	Width/Depth/Height [mm]	800/700/1,994	1,000/800/2,095	2,200/850/2,215	5,300/3,000/3,100	5,600/3,000/3,100
	Weight	800 kg	1,250 kg	2,350 kg	Approx. 28 t	Approx. 32 t
	Protective Functions	DC Over-/ Under-Voltage, AC Line Over-/ Under-Voltage, AC Line Frequency Failure, AC Line Failure, Anti-Islanding Protection, Overheating				

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Monitoring System

Clients can monitor the Hyundai solar system through proposed monitoring system (optional).

Environments, Solar inverter status, Solar module status, Power generating system status can be monitored.



HYUNDAI | GREEN ENERGY

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