

Think GAIA
For Life and the Earth

SANYO

SANYO Module Line up 2008



SANYO Component Europe GmbH

November, 2007

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2008 Brand new model



		2008 Model		
Model Name		HIP-xxxHDE1		
Output [W]		225	220	215
Vmp [V]		33.9	33.5	33.1
Imp [A]		6.64	6.57	6.5
Voc [V]		41.8	41.4	40.9
Isc [A]		7.14	7.07	6.99
Efficiency [%]	Module	16.2%	15.9%	15.5%
	Cell	18.8%	18.3%	17.9%
Temperature coefficient	Pmax [%/°C]	-0.30	-0.30	-0.30
	Voc [V/°C]	-0.105	-0.104	-0.102
	Isc [mA/°C]	2.14	2.12	2.1
Dimensions [mm]		1610 x 861 x 35		
Weight [kg]		16.5		
Certificates	IEC	61730		
	SCII	●	●	●
CE mark		●	●	●



Model comparison (07 model and 08model)



		2007 Model			2008 Model		
Model Name		HIP-xxxNHE5			HIP-xxxNKHE1		
Output [W]		215	210	205	215	210	205
Vmp [V]		42.0	41.3	40.7	42.0	41.3	40.7
Imp [A]		5.13	5.09	5.05	5.13	5.09	5.05
Voc [V]		51.6	50.9	50.3	51.6	50.9	50.3
Isc [A]		5.61	5.57	5.54	5.61	5.57	5.54
Efficiency [%]	Module	17.2%	16.8%	16.4%	17.1%	16.7%	16.3%
	Cell	19.3%	18.9%	18.4%	19.3%	18.9%	18.4%
Temperature coefficient	Pmax [%/°C]	-0.30	-0.30	-0.30	-0.30	-0.30	-0.30
	Voc [V/°C]	-0.129	-0.127	-0.126	-0.129	-0.127	-0.126
	Isc [mA/°C]	1.68	1.67	1.66	1.68	1.67	1.66
Dimensions [mm]		1570 x 798 x 35			1580 x 798 x 35		
Weight [kg]		15			15		
Certificates	IEC	61215			61730		
	SCII	●	●	●	●	●	●
CE mark		●	●	●	●	●	●

Model comparison (07 model and 08model)



	2007 Model	2008 Model
Model Name	HIP-xxxNHE5	HIP-xxxNKHE1
Appearance		

Model comparison (07 model and 08model)



	2007 Model	2008 Model																																				
Label	<p>PHOTOVOLTAIC MODULE MODEL NUMBER: HIP-XXXXXX</p> <table border="1"> <thead> <tr> <th colspan="2">NOMINAL VALUES</th> </tr> </thead> <tbody> <tr><td>MAXIMUM POWER (Pmax)</td><td>W</td></tr> <tr><td>SHORT CIRCUIT CURRENT (Isc)</td><td>A</td></tr> <tr><td>OPEN CIRCUIT VOLTAGE (Voc)</td><td>V</td></tr> <tr><td>MAXIMUM POWER CURRENT (Imp)</td><td>A</td></tr> <tr><td>MAXIMUM POWER VOLTAGE (Vmp)</td><td>V</td></tr> <tr><td>MAX. SYSTEM VOLTAGE</td><td>V</td></tr> <tr><td>MAX. OVER-CURRENT RATING</td><td>A</td></tr> <tr><td>MINIMUM Pmax</td><td>W</td></tr> </tbody> </table> <p>* All technical data at standard test conditions: AM 1.5, 1000W/m² IRRADIANCE 25°C CELL TEMPERATURE</p> <p>WARNING ELECTRICAL HAZARD SOLAR MODULES CAN PRODUCE HIGH VOLTAGES WHEN EXPOSED TO SUNLIGHT. COVER MODULES WHEN CONNECTING WIRING. READ, UNDERSTAND AND FOLLOW ALL SAFETY PRECAUTIONS DESCRIBED IN MODULE INSTALLATION MANUAL. REMOVAL OF TERMINAL BLOCK VOIDS WARRANTY.</p> <p>SERIAL NUMBER: 000000000 DATE OF MANUFACTURE (YM) : 0000 MANUFACTURER : SANYO Electric Co., Ltd. 000000000000 MADE IN JAPAN</p>	NOMINAL VALUES		MAXIMUM POWER (Pmax)	W	SHORT CIRCUIT CURRENT (Isc)	A	OPEN CIRCUIT VOLTAGE (Voc)	V	MAXIMUM POWER CURRENT (Imp)	A	MAXIMUM POWER VOLTAGE (Vmp)	V	MAX. SYSTEM VOLTAGE	V	MAX. OVER-CURRENT RATING	A	MINIMUM Pmax	W	<p>PHOTOVOLTAIC MODULE MODEL NUMBER: HIP-27ENKHE1</p> <table border="1"> <thead> <tr> <th colspan="2">NOMINAL VALUES</th> </tr> </thead> <tbody> <tr><td>MAXIMUM POWER (Pmax)</td><td>215W</td></tr> <tr><td>SHORT CIRCUIT CURRENT (Isc)</td><td>5.61A</td></tr> <tr><td>OPEN CIRCUIT VOLTAGE (Voc)</td><td>51.6V</td></tr> <tr><td>MAXIMUM POWER CURRENT (Imp)</td><td>5.13A</td></tr> <tr><td>MAXIMUM POWER VOLTAGE (Vmp)</td><td>42.0V</td></tr> <tr><td>MAX. SYSTEM VOLTAGE</td><td>1000V</td></tr> <tr><td>MAX. OVER-CURRENT RATING</td><td>15A</td></tr> <tr><td>MINIMUM Pmax</td><td>204.25W</td></tr> </tbody> </table> <p>Application class of product : class A * All technical data at standard test conditions: AM 1.5, 1000W/m² IRRADIANCE, 25°C CELL TEMPERATURE</p> <p>WARNING ELECTRICAL HAZARD SOLAR MODULES CAN PRODUCE HIGH VOLTAGES WHEN EXPOSED TO SUNLIGHT. COVER MODULES WHEN CONNECTING WIRING. READ, UNDERSTAND AND FOLLOW ALL SAFETY PRECAUTIONS DESCRIBED IN MODULE INSTALLATION MANUAL. REMOVAL OF TERMINAL BLOCK VOIDS WARRANTY.</p> <p>SERIAL NUMBER: 000000000 DATE OF MANUFACTURE (YM) : 0000 MANUFACTURER : SANYO Electric Co., Ltd. 000000000000 MADE IN JAPAN</p> <p>Qualified, IEC61215 Safety tested, IEC61730</p>	NOMINAL VALUES		MAXIMUM POWER (Pmax)	215W	SHORT CIRCUIT CURRENT (Isc)	5.61A	OPEN CIRCUIT VOLTAGE (Voc)	51.6V	MAXIMUM POWER CURRENT (Imp)	5.13A	MAXIMUM POWER VOLTAGE (Vmp)	42.0V	MAX. SYSTEM VOLTAGE	1000V	MAX. OVER-CURRENT RATING	15A	MINIMUM Pmax	204.25W
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