

The Characteristics of Apollo Products HNS-ST55/60/63H/65H



Advantages

More balanced sunlight absorption

The three layer thin film deposition design allows for more balanced sunlight absorption, therefore increasing the efficiency of the modules.

. Better performance under weak light/scattered light conditions

As thin film modules can generate power in cloudy weather, shady places and twilight hours in the morning and evening, more power can be generated during the life cycle of the modules, i.e., more power is generated per installed watt.

Low Temperature Coefficient

Our products have better performance under higher temperatures and can generate more power in tropical and desert regions.

· Shorter energy payback period and lower costs

Our thin film modules require less silicon and energy consumption during production, therefore reducing their energy payback period and costs significantly.

The Characteristics of Apollo Products

HNS-ST55 / 60 / 63H / 65H

Module Type		HNS-ST55	HNS-ST60	HNS-ST63H	HNS-ST65H
Normal Power at STC	Pmax(W)	55	60	63	65
Voltage at Pmax	Vmp(V)	67	69	70	70
Current at Pmax	Imp(A)	0.82	0.87	0.90	0.93
Open Circuit Voltage	Voc(V)	87	88	89	89
Short Circuit Current	Isc(A)	1.00	1.06	1.09	1.12
Electrical Characteristics at NC	OCT (800W/m², 45°	C, AM1.5)			
Maximum Power	Pmax(W)	42	45	48	49
Voltage at Pmax	Vmp(V)	62	64	65	65
Current at Pmax	Imp(A)	0.67	0.71	0.73	0.76
Open Circuit Voltage	Voc(V)	81	82	83	83
Short Circuit Current	Isc(A)	0.81	0.86	0.89	0.91
Temperature Coefficients					
Maximum Output Power (% / °C)	-0.281				
Open Circuit Voltage (% / °C)		-0.347			
Short Circuit Current (% / °C)		+0.0715			
Key Structural Parameters					
Front Glass		3.2mm TCO			
Rear Glass		4.0mm non-tempered glass			
Encapsulation Material		EVA EVA+Butyl			
Cell Type		Triple-Junction (a-Si / a-SiGe / a-SiGe)			
Junction Box(Protection Class)		IP67			
Length		1245mm			
Width		635mm			
Thickness		7.5 mm(Exclude Junction box)			
Weight		14.4Kg			
Length of Junction Box Cable		450 or 750mm			
Plug Connector		Compatible MC4			
Others					
Maximum System Voltage		1000V			
Maximum Source Circuit Fuse		2A			
Tolerance on Pmax		0 / +3W			
Operating Temperature		-40°C - + 85°C			
Mechanical Load		2400Pa			
Certificates		CE、TUV SUD、UL、C			UD CE

















