

INFINEON *reborn*

S2000

4.2KW HYBRID SOLAR INVERTER



PRODUCT DATASHEET

Inverter Mode		Grid-Tie Operation		
Maximum PV Input Power	5200W	Nominal Output Voltage	220/230/240VAC	
Rated Output Power	4200W/4200VA	Feed-In Grid Voltage Range	195!253VAC	
Output Voltage Waveform	Pure Sine Wave	Feed-In Grid Frequency Range	49~51±1Hz / 59~61±1Hz	
Output Voltage Regulation	230VAC ±5%	Nominal Output Current	15.7A	
Output Frequency	50Hz	Power Factor Range	>99	
Peak Efficiency	93%	Maximum Conversion Efficiency (DC/AC)	97%	
Overload Protection	3s@≥150% Load 5s@101%~150 Load	Line Mode		
Surge Capacity	8400W For 5s	Input Voltage Waveform	Sinusoidal (Utility or Generator)	
Nominal DC Input Voltage	24Vdc	Nominal Input Voltage	230Vac	
Cold Start Voltage	23.0Vdc	Low Loss Voltage	170Vac ±7V (UPS) 90Vac ±7V (Appliances)	
High DC Recovery Voltage	32Vdc	Low Loss Return Voltage	180Vac ±7V (UPS) 100Vac ±7V (Appliances)	
High DC Cut-Off Voltage	33Vdc	High Loss Voltage	280Vac±7V	
No Load Power Consumption	30W	High Loss Return Voltage	270Vac±7V	
Two Load Output Power		Maximum AC Input Voltage	300Vac	
Full Load	4200W	Nominal Input Frequency	50Hz / 60Hz (Auto Detection)	
Maximum Main Load	4200W	Low Loss Frequency	40±1Hz	
Maximum Second Load Upto(Battery Mode)	1386W	Low Loss Return Frequency	42±1Hz	
Main Load Cutt Off Voltage	24VDC	High Loss Frequency	65±1Hz	
Main Load Return Voltage	27VDC	High Loss Return Frequency	63±1Hz	
Utility Charging Mode		Output Short Circuit Protection	Circuit Breaker	
Charging Algorithm	3-Step	Efficiency (Line Mode)	>95% (Rated R Load, Battery Full Charged)	
AC Charging Current (Maximum)	100A (@V _{1/P} = 230Vac)	Transfer Time	10ms For UPS 20ms For Appliance	
Bulk Charging Voltage	Flooded Battery	29.2	General Specs	
	AGM/Gel Battery	28.2	Safety Certification	CE
Floating Charging Voltage	27Vdc	Operating Temperature Range	-10°C to 50°C	
MPPT Solar Charging Mode		Storage Temperature	-15°C to 60°C	
Maximum PV Array Power	5200W	Humidity	5% to 95% Relative Humidity (Non-Condensing)	
Nominal PV Voltage	240Vdc	Dimensions (D*W*H) mm	420*350*110	
PV Array MPPT Voltage Range	60Vdc~450Vdc	Net Weight (KG)	9.0	
Max PV Array Open Circuit Voltage	500Vdc			
Maximum Charging Current	120A			