بھردے اجالا زندگی میں ®
Fronus
SOLAR ENERGY

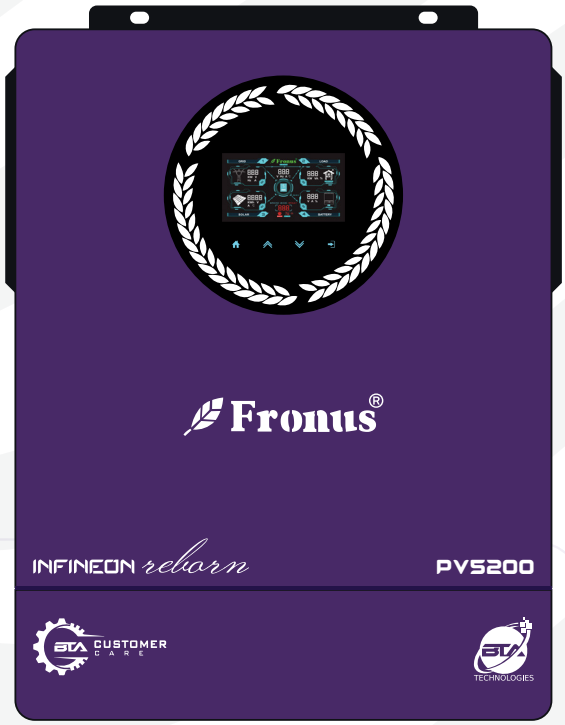
INFINEON reborn

ECO 5200

IP21 4.2 Kilowatts Hybrid Inverter

UPGRADED
MPPT CHIPSET

Upgraded to Latest Chipset that
is more Efficient and Reliable



Wifi Controller
Smart Remote Monitoring Enabled

120A Max PV Charging
High-Efficiency Solar Charging System

Pure Sine Wave
Stable and Reliable Power Output

Li-ion Battery Compatible
Fully Compatible with Li-ion Batteries

SCAN QR CODE
For More Details

Fronus SOLAR ENERGY

PV 5200

DATA SHEET

Inverter Mode		
Maximum PV Input Power		5200W
Rated Output Power		4200W/4200VA
Output Voltage Waveform		Pure Sine Wave
Output Voltage Regulation		230VAC ±5%
Output Frequency		50Hz
Peak Efficiency		93%
Overload Protection		3s@≥150% Load 5s@101%~150 Load
Surge Capacity		8400W For 5s
Nominal DC Input Voltage		24Vdc
Cold Start Voltage		23.0Vdc
High DC Recovery Voltage		32Vdc
High DC Cut-Off Voltage		33Vdc
No Load Power Consumption		30W
Two Load Output Power		
Full Load		4200W
Maximum Main Load		4200W
Maximum Second Load Upto(Battery Mode)		1386W
Main Load Cutt Off Voltage		24VDC
Main Load Return Voltage		27VDC
Utility Charging Mode		
Charging Algorithm		3-Step
AC Charging Current (Maxinum)		100A (@$V_{I/P}$ = 230Vac)
Bulk Charging Voltage	Flooded Battery	29.2
	AGM/Gel Battery	28.2
Floating Charging Voltage		27Vdc
MPPT Solar Charging Mode		
Maximum PV Array Power		5200W
Nominal PV Voltage		240Vdc
PV Array MPPT Voltage Range		60Vdc~450Vdc
Max PV Array Open Circuit Voltage		500Vdc
Maximum Charging Current		120A

Grid-Tie Operation	
Nominal Output Voltage	220/230/240VAC
Feed-In Grid Voltage Range	195~253VAC
Feed-In Grid Frequency Range	49~51±1Hz / 59~61±1Hz
Nominal Output Current	15.7A
Power Factor Range	>99
Maximum Conversion Efficiency (DC/AC)	97%
Line Mode	
Input Voltage Waveform	Sinusoidal (Utility or Generator)
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac ±7V (UPS) 90Vac ±7V (Appliances)
Low Loss Return Voltage	180Vac ±7V (UPS) 100Vac ±7V (Appliances)
High Loss Voltage	280Vac±7V
High Loss Return Voltage	270Vac±7V
Maximum AC Input Voltage	300Vac
Nominal Input Frequency	50Hz / 60Hz (Auto Dectection)
Low Loss Frequency	40±1Hz
Low Loss Return Frequency	42±1Hz
High Loss Frequency	65±1Hz
High Loss Return Frequency	63±1Hz
Output Short Circuit Protection	Circuit Breaker
Efficiency (Line Mode)	>95% (Rated R Load, Battery Full Charged)
Transfer Time	10ms For UPS 20ms For Applicance
General Specs	
Safety Certification	CE
Operating Temperature Range	-10°C to 50°C
Storage Temperature	-15°C to 60°C
Humidity	5% to 95% Relative Humidity (Non-Condencsing)
Dimensions (D*W*H) mm	420*350*110
Net Weight (KG)	9.0