Fronus ® بھروسے اجالا زندگی میں
SOLAR ENERGY

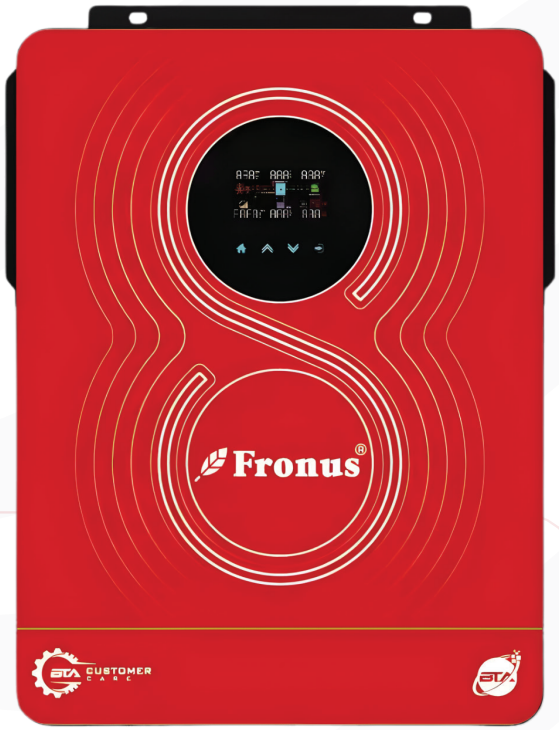
INFINEON reborn

ECO4200

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 ® بھردے اجالا زندگی میں

INFINEON reborn ECO4200

DATASHEET

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 Cut Off Voltage	24VDC
Main Load Return Voltage	27VDC

Utility Charging Mode

Charging Algorithm		3-Step
AC Charging Current (Maximum)		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 Detection)
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 Appliance

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-Condesing)
Dimensions (D*W*H) mm	420*350*110
Net Weight (KG)	9.0