Fronus ® بھردے اجالا زندگی میں
SOLAR ENERGY

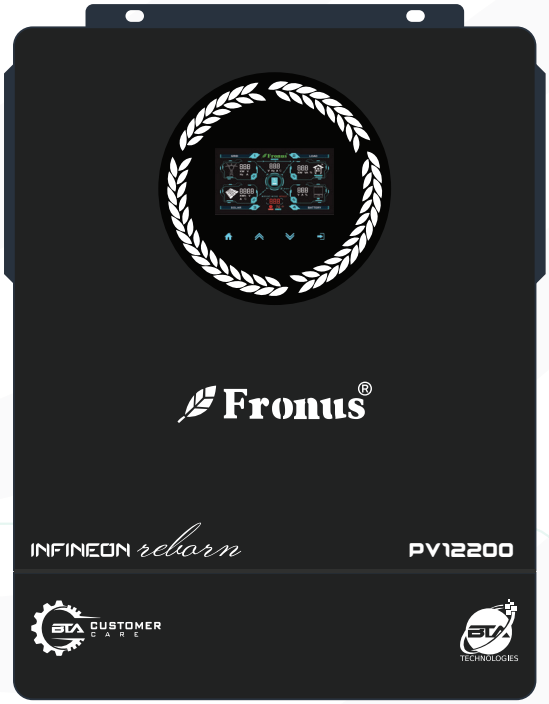
INFINEON reborn

PV12200

IP21 10.2 Kilowatts Hybrid Inverter

SMART
APP CONTROL

Smart Control & Monitoring
via Fronus App



Wifi Controller
Smart Remote Monitoring Enabled

160A 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

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INFINEON reborn PV12200

DATASHEET

Inverter Mode

Maximum PV Input Power	12200W
Rated Output Power	10200W/10200VA
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	20400W For 5s
Nominal DC Input Voltage	48Vdc
Cold Start Voltage	46.0Vdc
High DC Recovery Voltage	62Vdc
High DC Cut-Off Voltage	63Vdc
No Load Power Consumption	75W

Two Load Output Power

Full Load	10200W
Maximum Main Load	10200W
Maximum Second Load Upto(Battery Mode)	3400W
Main Load Cut Off Voltage	52VDC
Main Load Return Voltage	54VDC

Utility Charging Mode

Charging Algorithm		3-Step
AC Charging Current (Maximum)		140A
Bulk Charging Voltage	Flooded Battery	58.4
	AGM/Gel Battery	56.4
Floating Charging Voltage		54Vdc

MPPT Solar Charging Mode

Maximum PV Array Power	PV1 Channel: 5400W PV2 Channel: 5400W
IMax. PV	PV1 Channel: 18A PV2 Channel: 18A
Nominal PV Voltage	360Vdc
PV Array MPPT Voltage Range	90Vdc~450Vdc
Max PV Array Open Circuit Voltage	500Vdc
Maximum Charging Current	160A

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	44.3A
Power Factor Range	>0.99
Maximum Conversion Efficiency (DC/AC)	98%

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-Condensing)
Dimensions (D*W*H) mm	530 x 390 x 130
Net Weight (KG)	14.5