

NOVA 12K

PREMIUM SPLIT-PHASE HYBRID INVERTER

MODEL: NOVA 12K



FEATURES

• Power Flexibility

120/240V split-phase or 120/208V split-phase
Supports generator input & AC coupling
Scalable to 6 parallel units

• Intelligent Control

Real-time monitoring via WiFi & mobile app
BMS integration through RS485 interface
External CT sensor for 100% self-consumption

• Advanced Safety

300A DC + 60A AC Integrated breaker
AFD/RSD (NEC 690.11/690.12)
Ground fault detection (NEC 690.5)
PV input lightning protection

• Premium Performance

91% DC-to-AC efficiency | Pure sine wave
Multi-mode operation: Grid-tie/Off-grid/Hybrid

SPECIFICATIONS

DC INPUT	Max PV Power	12000W
	Voltage Range	120–550VDC
	Startup Voltage	125V
	MPPT	Dual inputs — 2 × 18A (30A peak)
AC OUTPUT	Rated Power	10000W
	Voltage	120/208/240V Split-Phase
	Current	41.7A per phase
	Power Factor	0.9 lead to 0.9 lag
BATTERY INTEGRATION	Voltage	48VDC (Range: 40–62VDC)
	Max Charging Current	200A
	Compatibility	Lead-acid/Li-ion/NiCd
ENVIRONMENTAL RATINGS	Enclosure	IP65–rated for outdoor use
	Operating Temp	–13°F to 140°F (–25°C to 60°C)
	Weight	112 lb (51 kg)
	Dimensions	8.5" × 20.3" × 28.1" (215 × 516 × 714 mm)
CERTIFICATIONS & COMPLIANCE	UL 1741SA/SB, CSA C22.2 No.107.1, IEEE 1547	
	CEC-listed, FCC Part 15 Class B	
	Compliant with CA Rule 21 and HECO Rule 14H	