

OnyxLine

Powers your life

Off-Grid Solar Inverter system

ELANOR

12KW



IP54

Protection

2

Year

Warranty

Technical Features

PV (DC Input)	Recommended max. PV input power	12000W
	Max. input voltage(Voc)	500V
	MPPT operating voltage range	85V-450V (@75V start up)
	Number of MPPT	2
	Max. number of input strings per MPPT	2
	Max. input current per MPPT	27A
	Max. short-circuit current per MPPT	35A
Grid (AC Input)	Max input power	12000W
	Max input current	90A
	Rated grid voltage	220/230/240Vac
	Rated grid frequency	50/60Hz
	Acceptable range	170-280Vac (For UPS) ; 90-280Vac (For Home Appliances)
Battery Parameters (Bidirection)	Battery type	LiFePO 4 /Lead-acid
	Battery voltage range	40~60Vdc
	Rate Battery Voltage	48Vdc
	Max. charge/discharge current	210A
	BMS communication mode	RS485

Back-up Output (AC Output)	Rated output power	12000W/12000VA
	Rated output current	50A
	Rated output voltage / Frequency	220/230/240Vac 50/60Hz
	Parallel Capacity	Max. 12 Units
	Surge power	12000VA 5s
	THDv (@ linear load)	<3%
	Switching time	10ms (For UPS) /20ms (For Home Appliances)
Efficiency	Peak efficiency	98.00%
	Max. MPPT efficiency	99.90%
Protection	Inner protection	√ Output short-circuit protection √ Output overvoltage protection
	Surge protection	PV: Type III, AC: Type III
	IP rating	IP54
General Parameters	Operating temperature range	-10°C ~ 55°C
	Relative humidity range	5%~95%
	Max. operating altitude	>2000m derating
	Standby self-consumption	<10W
	Installation type	Wall-mounted
	Cooling mode	Fan cooling
	Communication	RS232/RS485/Dry contact/WI-FI
Mechanical Specifications	Display	LCD
	Inverter dimensions (L*W*H) (mm)	444.7*346.6*120
	Net weight (kg)	12.4
	Shipping dimensions (L*W*H) (mm)	560*465*240
	Gross weight (kg)	14.6
	Warranty Period	2 Years

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