

Stand-alone (off-grid) solar inverters

series **SL/SLP**

3 kVA
5 kVA



FEATURES

- Designed for fully autonomous or backup power systems,
- Pure Sine Wave,
- Built-in protection against overloads and short circuits,
- Built-in dust protection (SLP),
- 1 or 2 built-in MPPT or PWM controllers,
- Efficiency up to 93%,
- Monitoring and configuring from LCD display or PC via USB, RS232/Dry-Contact.



ABi-Solar® SL & SLP series of off-grid inverters are equipped with PWM or MPPT PV charge controllers. These devices combine capabilities of PV inverter, charge controller from PV modules or grid. Built-in LCD display allows PV plant monitoring and management. Energy conversion efficiency reaches 93%.

MODEL	SLP 3024 PWM	SLP 3024 MPPT	SLP 3024 PLUS MPPT	SLP 5048 PWM	SLP 5048 MPT	SL 5048 DUO
Charge controller type	PWM	MPPT	MPPT	PWM	MPPT	MPPT
Quantity of controllers	1					2
Rated power	3000 VA / 2400 W			5000 VA / 4000 W		
INPUT (GRID)						
Voltage	230 V					
Operating voltage range	170-280/90-280 V					
Frequency	50 Hz/60 Hz (autoselect)					
OUTPUT (LOAD)						
Operating voltage (battery mode)	230 V ± 5%					
Peak power	6000 VA			10000 VA		
Maximum efficiency	93%					90%
Switching time	20 ms					10/20 ms
Sinewave	Pure					
BATTERY						
Battery voltage	24 V	24 V	24 V	48 V	48 V	48 V
Supporting voltage						54 V
Overvoltage protection						60 V
CHARGE CONTROLLER AC AND DC						
PV maximum power (MPPT only)	-	1 kW	1,5 kW	-	3 kW	6 kW
MPP operating range (MPPT only)	-	30~80 V	30~115 V	-	60~115 V	60~115 V
PV maximum power voltage	80 V	102 V	145 V	105 V	145 V	145 V
DC maximum charge current	50 A	40 A	60 A	50 A	60 A	2×60 A
AC maximum charge current	20 A	20 A	60 A	60 A	60 A	60 A
Total maximum charge current	70 A	60 A	120 A	110 A	120 A	180 A
Consumption in standby mode	2 W					
PHYSICAL PARAMETERS						
Dimensions (AxBxC), mm	100×285×334			100×300×440		187×295×508
Weight	6.3 kg	6.5 kg	9.5 kg	9.7 kg	9.7 kg	15 kg
OPERATING ENVIRONMENT						
Humidity	5% ~ 95% (non-condensing)					
Operating temperature	-10 °C ~ 50 °C					
Dust protection	filter on coolers					-

* AC and DC charge controllers not working simultaneously

Head office
1126 S Federal Highway #285, Fort
Lauderdale, Florida 33316, USA
+1 305 504 2302

Eastern Europe
ul. Józefa Ignacego Kraszewskiego
36/128, 30-110 Kraków
+48 12 307 25 43

CIS
9b, Simyi Sosninykh str., 03148,
Kyiv, Ukraine
+380 44 379 2889