

Solatek SL 3KW-24 / 5KW-48



- Pure Sine Wave Inverter: 3000W/5000W
- Output Power Factor: 1
- AC Input/Output: 220-240VAC
- Battery Voltage: 24VDC/ 48VDC
- Selectable Charging Range
- Max AC Charging: 80A/ 60A
- Max Solar Charging: 80A
- Solar Charger: 4000W MPPT/ 6000W MPPT
- PV Range: 120VDC~450VDC max 495VDC
- Solar\Utility\Battery Priority SUB
- Overload and Short Circuit Protection
- Auto-restart Function

Solatek SL 3KW-24/ 5KW-48 Selection Guide

MODEL	Solatek SL 3KW-12V	Solatek SL 5KW-24V
Phase	1-phase in / 1-phase out	1-phase in / 1-phase out
Maximum PV Input Power	4000W	6000W
Rated Output Power	3KVA/3KW	5KVA/5KW
Maximum Charging Power	4000W	6000W
OFF-GRID OPERATION		
AC INPUT		
Nominal AC Input Voltage/Waveform	230 VAC / Sinusoidal (Utility or Generator)	230 VAC / Sinusoidal (Utility or Generator)
AC Input Range	90 ~ 280 VAC (Appliances);170 VAC ~ 280 VAC (UPS)	90 ~ 280 VAC (Appliances);170 VAC ~ 280 VAC (UPS)
Nominal Input Frequency	50Hz / 60 Hz (Auto Detection)	50Hz / 60 Hz (Auto Detection)
Input Frequency Range	40 ~ 65 ± 1 Hz; (>42 or <63 ± 1Hz comeback)	40 ~ 65 ± 1 Hz; (>42 or <63 ± 1Hz comeback)
PV INPUT (DC)		
MPP Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 430 VDC
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC	230 VAC
Output Waveform	Pure sinewave	Pure sinewave
Efficiency (Line Mode)	>95% (Rated R Load, Battery Full Charged)	>95% (Rated R Load, Battery Full Charged)
HYBRID OPERATION		
PV INPUT (DC)		
MPP Voltage Range	120 VDC ~ 450 VDC	120 VDC ~ 450 VDC
Max. PV Array Open Circuit Voltage	495 VDC	495 VDC
GRID OUTPUT (AC)		
Output Voltage / Frequency	230 VAC ± 5% / 50 Hz	230 VAC ± 5% / 50 Hz
No Load Power Consumption	<30KW	<40KW
Transfer Time	10 ms typical (UPS); 20 ms typical (Appliances)	10 ms typical (UPS); 20 ms typical (Appliances)
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BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC	230 VAC
Efficiency (DC to AC)	94%	94%
BATTERY & CHARGER		
Nominal DC Voltage	24 VDC	48 VDC
Maximum AC Charging Current	80 A (@VI/P=230 VAC)	60 A (@VI/P=230 VAC)
Utility Charging Mode	3KVA/3KW	5KVA/5KW
Cold Start Voltage	23 VDC	46 VDC
High DC Cut-off Voltage	33 VDC	63 VDC
MPPT Solar Charging & Invert Mode	3KVA/3KW	5KVA/5KW
Floating Charging Voltage	27 VDC	54 VDC
Maximum Charging Current	80A	80A
Bulk Charging Voltage Flooded Battery	29.2	58.4
Bulk Charging Voltage AGM / Gel Battery	28.2	56.4
Charging Algorithm	3-Step	3-Step
PROTECTION		
Surge Capacity	2 x Rated Power for 5 Seconds	2 x Rated Power for 5 Seconds
Overload Protection	5s @ ≥150% Load; 10s @ 110% ~ 150 % Load	5s @ ≥150% Load; 10s @ 110% ~ 150 % Load
Output Short Circuit Protection	Circuit Breaker	Circuit Breaker
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	110 x 309 x 355	110 x 309 x 415
Net Weight (kgs)	7.3	9.6
ENVIRONMENT		
Humidity	5 ~ 95% RH (Non-condensing)	5 ~ 95% RH (Non-condensing)
Storage Temperature	15 to 60°C	15 to 60°C
Operating Temperature	-10 to 50°C	-10 to 50°C
SAFETY		
Safety Certification	CE	CE

Product specifications are subject to change without further notice.