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SOLAR ENERGY EQUIPMENTS



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NML SERIES SMART OFF-GRID INVERTER

1.6kW | 3kW



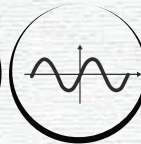
For Off-Grid User



Grid Connection



Multi Stage Smart Charger Desing



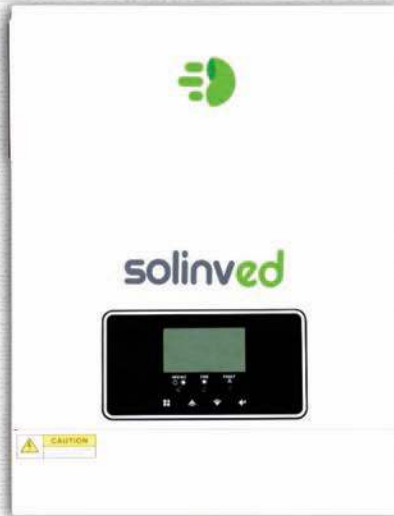
Pure Sine Wave

Technical Specifications

Model	NML-2000	NML-3200
Rated Power	2000VA/1600W	3200VA/3000W
AC Input		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC(For Personal Computers) 90-280VAC(For Home Appliances)	
Frequency Range	50 Hz/60Hz(Auto sensing)	
AC OUTPUT		
AC Voltage Regulation	230VAC±5%	
Surge Power	4000VA	6400VA
Efficiency(Peak)PV to INV	98%	
Efficiency(Peak)Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	16VDC	33VDC
Maximum AC Charge Current	60A	
SOLAR CHARGER		
Maximum PV Array Power	2000W	3000W
MPPT Range @ Operating Voltage	30-400VDC	
Maximum PV Array Open Circuit Voltage	400VDC	
Maximum Charging Current	80A	
PHYSICAL		
Dimension D*W*H(mm)	357*273*95	
Net Weight (kgs)	4	5
Communication interfaace	RS232/GPRS/WIFI	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	-10 to 50C°	

NM-ECO SERIES SMART OFF-GRID INVERTER

3.6 KW | 4.2 KW | 6.2 KW



Technical Specifications

MODEL	NM-ECO-3.6KW PLUS	NM-ECO- 4.2KW PLUS	NM-ECO- 6.2KW PLUS
Phase	1-Phase		
Maximum PV Input Power	6200 W	6200 W	6500 W
Rated Output Power	3600W/3600VA	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	120A	120A	120A
PV Input (DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage & Initial Feeding Voltage	60VDC		
MPPT Voltage Range	60 - 450 VDC		
Number Of MPPT/Max Input Current	18A	18A	22A
GRID OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5-253VAC		
Nominal Output Current	15.7 A	18.2A	26.9A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49-51 ±Hz		
EFFICIENCY			
Max. Conversion Efficiency(Solar to AC)	97%		
TWO LOAD OUTPUT POWER (V2.0)			
Full Load	3600W	4200W	6200W
Maximum Main Load	3600W	4200W	6200W
Max Second Load(battery mode)	1200W	1400W	2066W
Main Load Cut Off Voltage	26VDC		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Voltage Range	30A	40A	40A
Nominal operating frequency	50/60Hz		
Surge Power	7200W	8400W	12400W
BATTERY MODE OUTPUT (AC)			
Nominal Output Voltage	220/230/240VAC		
Output Waveform	Pure Sine Wave		
Efficiency(DC to AC)	93%		
BATTERY&CHARGER			
Nominal DC Voltage	24VDC		48Vdc
Maximum Solar Charging Current	120A		
Maximum AC Charging Current	100A		
GENERAL			
PYHSICAL			
Dimension D*W*H(mm)	110*334*423*		
Net Weight(Kgs)	9	9.5	10
INTERFACE			
ENVIRONMENT			
Operating Temperature	-10~50°C		

MAX SERIES SMART
OFF-GRID INVERTER
8.2kW | 10.2kW



Technical Specifications

MODEL	MAX-8.2	MAX-10.2
Phase	1-Phase	
Maximum PV Input Power	8200W	10200W
Rated Output Power	8200W	10200W
Maximum Solar Charging Current	160A	180A
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-up Voltage/ Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	90VDC/450VDC	
Num. of MPPT Trackers/Max. Input Current	1/27A	
GRID OUTPUT (AC)		
Nominal Output Voltage	200/230/240VAC	
Output Voltage Range	195.5/253VAC	
Nominal Output Current	35.6A	44.3A
Power Factor	>0.99	
Feed-in Grid Frequency Range	49-51±1Hz	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	97%	
TWO LOAD OUTPUT POWER		
Full Load	8200W	10200W
Maximum Main Load	8200W	10200W
Maximum Second Load (Battery Mode)	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC
Main Load Return Voltage	48VDC	48VDC
OFF-GRID OPERATION AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120/140VAC/180VAC	
Acceptable Input Voltage Range	98/280VAC or 170-280VAC	
Maximum AC Input Current	40A	50A
Nominal Operating Frequency	50/60Hz	
Surge Power	16400VA	20400VA
PV INPUT (DC)		
Maximum Dc Voltage	500VDC	
MPPT Voltage Range	90VDC-450VDC	
Num. of MPPT Tracker/Max. Input Current	1/27A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	48VDC	48VDC
Output Waveform	Pure Sine Wave	
Efficiency (DC to AC)	94%	
BATTERY & CHARGER		
Nominal DC Voltage	48VDC	48VDC
Maximum Solar Charging Current	160A	180A
Maximum AC Charging Current	140A	160A



INFINI- PRO THREE PHASE HYBRID SOLAR INVERTER 12-15kW



• Parallel operation up to 6 units



Grid
Connection



RGB Led
Screen



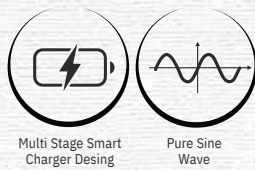
Wi-Fi Real Time
Monitoring
Support

Technical Specifications

MODEL	INFINI PRO 12KW	INFINI PRO 15KW	MODEL	INFINI PRO 12KW	INFINI PRO 15KW
MAXIMUM PV INPUT POWER	16000W	22500W	HYBRID OPERATION		
RATED OUTPUT POWER	12000W	15000W	PV INPUT (DC)		
MAXIMUM CHARGING POWER	12000W	15000W	Maximum DC Power	16000 W	22500 W
GRID-TIE OPERATION			Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC	
PV INPUT (DC)			MPP Voltage Range	350 ~ 950 VDC	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC	720 VDC / 1000 VDC	Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 26A	2 / A: 26A, B: 26A
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC		Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2
MPP Voltage Range	350 ~ 950 VDC		GRID OUTPUT (AC)		
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 26A	2 / A: 26A, B: 26A	Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2	Output Voltage Range	184 - 265 VAC per phase	
GRID OUTPUT (AC)			Nominal Output Current	17.4 A per phase	21.7 A per phase
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)		AC INPUT		
Output Voltage Range	184 - 265 VAC per phase		AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC	
Nominal Output Current	17.4 A per phase	21.7 A per phase	Acceptable Input Voltage Range	170 - 290 VAC per phase	
Power Factor range	0.9 lag ~ 0.9 lead		Maximum AC Input Current	40 A	40 A
EFFICIENCY			BATTERY MODE OUTPUT (AC)		
Maximum Conversion Efficiency (DC/AC)	>96%		Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)	
European Efficiency@ Vnominal	>95%		Efficiency (DC to AC)	91%	91%
OFF-GRID OPERATION			BATTERY & CHARGER		
AC INPUT			Battery Voltage Range	40 ~ 62 VDC	40 ~ 62 VDC
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC		Maximum Charging Current	250 A	300 A
Acceptable Input Voltage Range	170 - 290 VAC per phase		GENERAL		
Maximum AC Input Current	40 A	40 A	PHYSICAL		
PV INPUT (DC)			Dimension, D x W x H (mm)	255 x 660 x 750	
Maximum DC Power	16000 W	22500 W	Net Weight (kgs)	70	73
Maximum DC Voltage	1000 VDC	1000 VDC	INTERFACE		
MPP Voltage Range	350 ~ 950 VDC		Communication Port	RS-232, RS-485, USB, CAN and Wi-Fi	
Number of MPP Trackers / Maximum Input Current	2 / A: 26A, B: 26A	2 / A: 26A, B: 26A	Intelligent Slot	Optional for SNMP and Modbus cards	
Number of Strings Per MPP Tracker	A: 2, B: 2	A: 2, B: 2	ENVIRONMENT		
BATTERY MODE OUTPUT (AC)			Humidity	0 ~ 100% RH (Non-condensing)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)		Operating Temperature	-25 to 60°C, > 45°C power derating	
Output Waveform	Pure sine wave		Altitude	0 ~ 1000 m**	
Efficiency (DC to AC)	91%	91%			

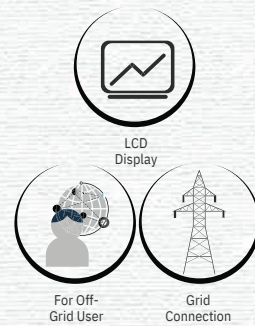
PS PLUS SERIES HYBRID OFF GRID INVERTERS

1-3 kW



Multi Stage Smart Charger Desing

Pure Sine Wave



LCD Display

For Off-Grid User

Grid Connection

Technical Specifications

MODEL	PS PLUS 1K-12	PS PLUS 3K-24
Max. PV Array Power	600W	1200W
Rated Power	1000VA/1000W	3000VA/3000W
INPUT		
Voltage	230VAC	
Selectable Voltage Range	170-280VAC (for personel computers) 90-280VAC (for home appliances)	
Frequency Range	50Hz / 60Hz (Auto sensing)	50Hz / 60Hz (Auto sensing)
OUTPUT		
AC Voltage Regulation (Batt.Mode)	230VAC±5%	230VAC±5%
Surge Power	2000VA	6000VA
Efficiency (Peak)	90%	93%
Transfer Time	10 ms (for personel computers) 20 ms (for home appliances)	
Wave Form	Pure Sine Wave	
BATTERY & AC CHARGER		
Battery Voltage	12VDC	24VDC
Floating Charge Voltage	13.5VDC	27VDC
Overcharge Protection	15.0VDC	30VDC
Maximum Charge Current	10A/20A	20A/30A
SOLAR CHARGER & AC CHARGER		
Charging Current		50A
Maximum PV Array Open Circiut Voltage	40VDC	80VDC
PV Range @ Operating Voltage	15-18VDC	30-40VDC
Standby Power Consumption	1W	2W
PHYSICAL		
Dimension. D*W*H (mm)	240*327.6*110	368*272*100
Ne Weight (kgs)	4.5KG	6.9KG
OPERATING ENVIRONMENT		
Humidity	5% to 95% Releative Humidity (Non-Condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60 °C	



Pure Sine Wave

POWER INVERTER

PURE SINE WAVE INVERTERS SLVP SERIES

500W/600W/1000W/1500W/2000W/2500W/3000W/4000W



For Off-Grid User



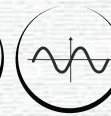
Inverter



Comprehensive Product Model



Overload & Short Circuit



Pure Sine Wave

Technical Specifications

MODEL	SLVP-500	SLVP-600	SLVP-1000	SLVP-1500
Rated Power	500W	600W	1000W	1500W
Peak Power	1000W	1200W	2000W	3000W
Input Voltage	DC 12V			
Output Voltage	AC 220 V			
Output Frequency	50/60Hz			
No-load current	<0.42A	<0.44A	<0.57A	<0.63A
Waveform	Pure Sine Wave (THD<3%) at rated input voltage			
Voltage Range	10.8V-15.5V(12V version)			
Efficiency	More than %85			
Protection	Battery Low Alarm,Battery Low Shutdown,Battery Polarity Reverse by Fuse			
Battery Types	Open & sealed lead acid battery			
Certification	CE-EMC/LVD,ROHS/REACH/IATF16949			
Cooling fan	By load and temperature control			
USB port	5V,2.1A			

MODEL	SLVP-2000	SLVP-2500	SLVP-3000	SLVP-4000
Rated Power	2000W	2500W	3000W	4000W
Peak Power	4000W	5000W	6000W	8000W
Input Voltage	DC 12V			
Output Voltage	AC 220 V			
Output Frequency	50/60Hz			
No-load current	<0.67A	<0.73A	<0.81A	<0.92A
Waveform	Pure Sine Wave (THD<3%) at rated input voltage			
Voltage Range	10.8V-15.5V(12V version)			
Efficiency	More than %85			
Protection	Battery Low Alarm,Battery Low Shutdown,Battery Polarity Reverse by Fuse			
Battery Types	Open & sealed lead acid battery			
Certification	CE-EMC/LVD,ROHS/REACH/IATF16949			
Cooling fan	By load and temperature control			
USB port	5V,2.1A			



Pure Sine Wave UPS Inverter

POWER INVERTER

PURE SINE WAVE INVERTERS SLVU SERIES

600W/1000W/1500W



Key Features:

- Pure Sine Wave inverter.
- High voltage protection, short circuit protection for safe operation.
- Phone and laptop charging with USB output port.
- 85% efficiency with high efficiency conversion technology.
- AC receptacles for connecting multiple loads.

Technical Specifications

MODEL	SLVU-600W	SLVU-1000W	SLVU-1500W
Rated Power	600W	1000W	1500W
Peak Power	1200W	2000W	3000W
Output Waveform	Pure Sine Wave		
Input Voltage	12VDC		
Output Voltage	220VAC		
Certificate	CE		
Overload & Short Circuit Protection	YES		
Overload Cut Off	YES		
Built-in Cooling Fan	YES		
Frequency Range	50Hz/60Hz optional		
No-load Current	< 0.53 A		
Voltage Range	10.8V-15.5V		
Efficiency	95%		
Socket	For Optional		
Max. Outer Temperature	-10 to 50°C		
Dimension.D*W*H(mm)	31x157	37x15x7	38x22x9
Net Weight (kgs)	2.3	3.9	4.3



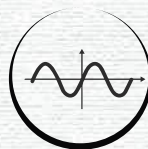
For Off-Grid User



Inverter



Overload & Short Circuit



Pure Sine Wave



Comprehensive Product Model





Modified Sine Wave

POWER INVERTER

MODIFIED SINE WAVE INVERTERS SLVM SERIES

300W/600W/1000W/1500W/2000W/2500W



Key Features:

- Modified sine wave.
- AC socket for multi-load connection.
- High voltage protection, short circuit protection for safe operation.
- USB output port for phone and laptop charging.
- 85% efficiency with high-efficiency conversion technology.

Technical Specifications

MODEL	SLVM-300	SLVM-600	SLVM-1000	SLVM-1500	SLVM-2000	SLVM-2500
Rated Power	300W	600W	1000W	1500W	2000W	2500W
Peak Power	600W	1200W	2000W	3000W	4000W	5000W
Input Voltage	DC 12V					
Output Voltage	AC 220 V					
Output Frequency	50/60Hz					
No-load current	<0.23A	<0.28A	<0.37A	<0.45A	<0.67A	<0.56A
Waveform	Modified Sine Wave					
Voltage Range	10.8V-15.5V(12V Version)					
Efficiency	More than %85					
Protection	Battery Low Alarm,Battery Low Shutdown,Battery Polarity Reverse by Fuse					
Battery Types	Open & sealed lead acid battery					
Certification	CE-EMC/LVD,ROHS/REACH/IATF16949					
Cooling fan	By load and temperature control					
USB port	5V,2.1A					



For Off-Grid User



Inverter



Comprehensive Product Model



MONO PHASE

SOLAR PUMP DRIVERS

1.5/2/2.2/3/4/5.5HP



Technical Specifications

MODEL	POWER		INPUT VOLTAGE				NOMINAL OUTPUT CURRENT (A)	Rated Input Current (A)
	ADAPTER MOTOR (kWh)	DC INPUT VOLTAGE (V)	STARTING VOLTAGE (V)	RECOMMENDED DC INPUT VOLTAGE RANGE (V)	RECOMMENDED MPPT VOLTAGE (V)	AC INPUT VOLTAGE (V)		
SOL-CDI-SPDG1R5SS2	1.5	200-400	150	200-400	330	220(±15%)(1PH)	10	27.0
SOL-CDI-SPDG2R2SS2	2.2	200-400	150	200-400	330	220(±15%)(1PH)	14	29.2
SOL-CDI-SPDG4R0SS2	4.0	200-400	150	200-400	330	220(±15%)(1PH)	17	32.8
SOL-CDI-SPDG2R2S2	2.2	200-400	150	200-400	330	220(±15%)(1PH)	10	27.0
SOL-CDI-SPDG4R0S2	4	200-400	150	200-400	330	220(±15%)(1PH)	17	32.8

THREE PHASE

SOLAR PUMP DRIVERS

7.5/15/20/25/30/40/37/60/75/100/120/150/160/200H
P 7.5/11/15/18.5/22/30/45/55/75/90/100/132/160kW



Technical Specifications

MODEL	POWER		INPUT VOLTAGE				NOMINAL OUTPUT CURRENT (A)	RATED INPUT CURRENT (A)
	ADAPTER MOTOR (kWh)	DC INPUT VOLTAGE (V)	STARTING VOLTAGE (V)	RECOMMENDED DC INPUT VOLTAGE RANGE (V)	RECOMMENDED MPPT VOLTAGE (V)	AC INPUT VOLTAGE (V)		
SOL-CDI-SPDG1R5T4	1.5	250-800	300	350-750	550	380(±15%)(3PH)	4.5	5.0
SOL-CDI-SPDG2R2T4	2.2	250-800	300	350-750	550	380(±15%)(3PH)	6	6.8
SOL-CDI-SPDG4R0T4	4.0	250-800	300	350-750	550	380(±15%)(3PH)	9.5	10.5
SOL-CDI-SPDG5R5T4	5.5	250-800	300	350-750	550	380(±15%)(3PH)	13	15.5
SOL-CDI-SPDG7R5T4	7.5	250-800	300	350-750	550	380(±15%)(3PH)	17	20.5
SOL-CDI-SPDG011T4	11.0	250-800	300	350-750	550	380(±15%)(3PH)	25	26
SOL-CDI-SPDG015T4	15.0	250-800	300	350-750	550	380(±15%)(3PH)	32	35
SOL-CDI-SPDG018.5T4	18.5	250-800	300	350-750	550	380(±15%)(3PH)	37	38.5
SOL-CDI-SPDG022T4	22.5	250-800	300	350-750	550	380(±15%)(3PH)	45	46.5
SOL-CDI-SPDG030T4	30.0	250-800	300	350-750	550	380(±15%)(3PH)	60	62
SOL-CDI-SPDG037T4	37.0	250-800	300	350-750	550	380(±15%)(3PH)	75	76
SOL-CDI-SPDG045T4	45.0	250-800	300	350-750	550	380(±15%)(3PH)	90	92
SOL-CDI-SPDG055T4	55.0	250-800	300	350-750	550	380(±15%)(3PH)	110	113
SOL-CDI-SPDG075T4	75.0	250-800	300	350-750	550	380(±15%)(3PH)	152	157
SOL-CDI-SPDG090T4	90.0	250-800	300	350-750	550	380(±15%)(3PH)	176	180
SOL-CDI-SPDG110T4	110.0	250-800	300	350-750	550	380(±15%)(3PH)	210	214
SOL-CDI-SPDG132T4	132.0	250-800	300	350-750	550	380(±15%)(3PH)	253	256
SOL-CDI-SPDG160T4	160.0	250-800	300	350-750	550	380(±15%)(3PH)	300	305

GEL BATTERY

BATTERY GROUP
DEEP CYCLE GEL BATTERY
 100/150/200AH



Technical Specifications

MODEL	GEL12-100(12V100AH)		GEL12-150(12V150AH)		GEL12-200(12V200AH)	
SPECIFICATION						
Nominal Voltage	12V		12V		12V	
Capacity (25°C)	10HR (10.5V)	100 Ah	20HR (10.5V)	150 Ah	20HR (10.5V)	200 Ah
	5HR (10.2V)	78 Ah	5HR (10.2V)	116.5 Ah	5HR (10.2V)	156 Ah
	1HR (9.6V)	58.2 Ah	1HR (9.6V)	87.3 Ah	1HR (9.6V)	116 Ah
Dimension						
Length	330 ± 2mm (12.99 inch)		485 ± 2mm (19.09 inch)		522 ± 2mm (20.55 inch)	
Width	171 ± 2mm (6.73 inch)		172 ± 2mm (6.77 inch)		238 ± 2mm (9.37 inch)	
Height	214 ± 2mm (8.43 inch)		240 ± 2mm (9.45 inch)		222 ± 2mm (8.74 inch)	
Total Height	220 ± 2mm (8.66 inch)		240 ± 2mm (9.45 inch)		222 ± 2mm (8.74 inch)	
Approx. Weight	30.0 kgs (66.00 lbs ± 4%)		43.1 kgs (95.02 lbs ± 4%)		60 kgs (132.28 lbs ± 4%)	
Terminal Type	T9		T11		T11	
Internal Resistance (Fully Charged, 25°C)	Approx. 5m Ω		Approx. 4.2m Ω		Approx. 3.3m Ω	
Capacity Affected by Temperature (10HR)	40°C	103%	40°C	103%	40°C	103%
	25°C	100%	25°C	100%	25°C	100%
	0°C	88%	0°C	88%	0°C	88%
	-15°C	70%	-15°C	70%	-15°C	70%
Self-Discharge (25°C)	3 Month	Remaining Capacity: %94	3 Month	Remaining Capacity: %94	3 Month	Remaining Capacity: %94
	6 Month	Remaining Capacity: %88	6 Month	Remaining Capacity: %88	6 Month	Remaining Capacity: %88
	12 Month	Remaining Capacity: %75	12 Month	Remaining Capacity: %75	12 Month	Remaining Capacity: %75
Nominal Operating Temperature	25°C ± 3°C (77°F ± 5°F)		25°C ± 3°C (77°F ± 5°F)		25°C ± 3°C (77°F ± 5°F)	
Operating Temperature Range						
Discharge	-15°C ~ 55°C (5°F ~ 131°F)		-15°C ~ 55°C (5°F ~ 131°F)		-15°C ~ 50°C (5°F ~ 131°F)	
Charge	-10°C ~ 55°C (14°F ~ 131°F)		-10°C ~ 55°C (14°F ~ 131°F)		-10°C ~ 50°C (14°F ~ 131°F)	
Storage	-20°C ~ 55°C (-4°F ~ 131°F)		-20°C ~ 55°C (-4°F ~ 131°F)		-20°C ~ 50°C (-4°F ~ 131°F)	
Float Charging Voltage (25°C)	13.50 to 13.80V Temperature Compensation -18mV/°C		13.50 to 13.80V Temperature Compensation -18mV/°C		13.50 to 13.80V Temperature Compensation -18mV/°C	
Cyclic Charging Voltage (25°C)	14.10 to 14.40V Temperature Compensation -30mV/°C		14.10 to 14.40V Temperature Compensation -30mV/°C		14.10 to 14.40V Temperature Compensation -30mV/°C	
Maximum Charging Current	20A		30A		40A	
Terminal Material	Copper		Copper		Copper	
Maximum Discharge Current	800A (5 sec.)		1500A (5 sec.)		1600A (5 sec.)	
Designed Floating Life (20°C)	15 Years		15 Years		15 Years	

- Absorbent Glass Mat Technology;
- Recognized by RoHS & CE;
- ABS Container.

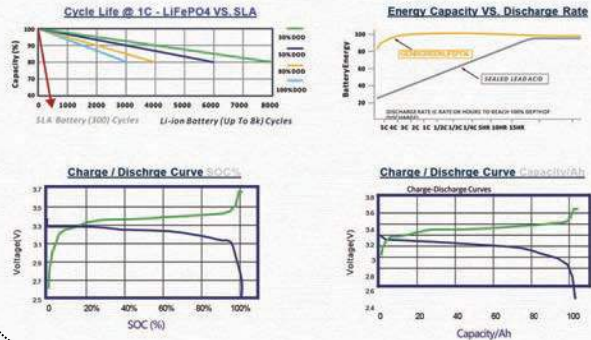


LITHIUM BATTERY

BATTERY GROUP DEEP CYCLE LITHIUM BATTERY 100/150/200AH



CURVES



Technical Specifications

Model	SLV-12100FP	SLV-12150FP	SLV-12200FP
Picture			
Nominal Voltage	12V		
Nominal Capacity @25°C	100AH	150AH	200AH
Nominal Energy @25°C	1280WH	1920WH	2560WH
Battery Cell Type	Prismatic 100Ah	Prismatic 50Ah	Prismatic 100Ah
Configuration (*S*P)	4S1P	4S3P	4S2P
Max. Continuous Charge Current @25°C	100A	100A	100A
Max. Pulse charge Current @25°C, 10s	120A	120A	120A
Max. Continuous Discharge Current @25°C	100A	100A	100A
Max. Pulse Discharge Current @ 25°C, 10s	120A	120A	120A
DC Resistance	≤10mΩ		

Model	SLV-12100FP	SLV-12150FP	SLV-12200FP
Picture			
Full Charged Voltage	14.6V		
Discharge Cut-off Voltage	10V		
Operate Temperature Range	Charge: 0°C~55°C; Discharge: -20°C~60°C; Storage: -20°C~45°C		
Humidity (non-condensing)	Max. 95%		
Dimension (mm)	265x165x217mm	327x172x218mm	522x240x220mm
Weight (KG)	10,6 KG	14,3 KG	20,35 KG
Terminal Type	F1 terminal	Screw terminal	
Cover Sealing type	Screw / gel sealing optional		
Waterproof	IP65		
Cycle life	100% DOD Cycles @ 25°C, 1C/1C: > 3000 times 80% DOD Cycles @ 25°C, 1C/1C: > 4000 times 50% DOD Cycles @ 25°C, 1C/1C: > 6000 times		
Service Life	5-10 years		
Warranty	3 years		
Series and Parallel Function	Available to make in series and parallels to get 24V, 36V, 48V		

CHARGE CONTROLLERS

MPPT CHARGE CONTROLLER MPK SERIES

60/80/100A



For Off-Grid User



Multi Stage Smart Charger Desing

Technical Specifications

MODEL	SOL-MPK60	SOL-MPK80	SOL-MPK100
System Voltage	12V/24V/48V Auto		
Max. Charging Current	60A	80A	100A
Max. Discharge Current	30A	40A	40A
Max. PV Open Circuit Voltage	150V (at lowest temperature) Max Pv Voltage 138V (at 25°C standard temperature)		
Min. PV Voltage	20V/40V/60V/80V		
Max. PV Input Power	780W(12V) 1560W(24V) 3120W(48V)	1040W(12V) 2080(24V) 4160W(48V)	1300W(12V) 2600(24V) 5200W(48V)
Battery Type	GEL, SLD, FLD and USR (default), Lithium battery customization 3 series 3.7V, 4 series 3.7V, 4 series 3.2V, 5 series 3.2V		
MPPT Highest Accuracy	%99		
Max. Charge Efficiency	%97		
Charge Control Mode	Multistage (MPPT, Boost, Compensation, Variable)		
Equalizing Charge Voltage	14.6V/29.2V/43.8V/58.4V		
Boost Charge Voltage	14.4V/28.8V/43.2V/57.6V		
Variable Charge Voltage	13.8V/27.6V/41.4V/55.2V		
Disconnect Low Voltage	10.8V/21.6V/32.4/43.2V		
Reconnect Low Voltage	12.6V/25.2/37.8V/50.4V		
Self Consumption	<35mA(48V)		
Load Control Mode	Normal, Light control, Light and Timing Control, Backlight Control		
Light Control Voltage	5V/10V/15V/20V		
Interface	Color LCD with backlight, 3 buttons		
Cooling Mode	Aluminum alloy heat sink and cooling fan		
Wiring	High Current Copper Terminal ≤ 25mm ² (3AWG)		
Temperature Probe	10K, 3m line length		
Operating temperature	-20→+55°C		
Storage Temperature	-30→+80°C		
Relative Humidity	10-90%, Non-Condensing		
Ground	Positive Grounding		
Communication Mode	RS485, RJ45 port		
Size (mm)	268*220*95	340*240*108	340*240*108
Net Weight (kg)	3.5	4.7	4.7

CHARGE CONTROLLER

MPPT CHARGE CONTROLLER

20A /30A /40A



Technical Specifications

Models	SOL-MPPT-320D	SOL-MPPT-330D	SOL-MPPT-340D
System Voltage	12V/24V Auto		
Battery Voltage Range	8~32V		
Max. Charge Current	20A	30A	40A
Max. Open Voltage of Solar Panel	100V/150V (Optional)		
Maximum Pv Input Power	260W (12V)520W (24V)	390W (12V)780W (24V)	520W (12V)1040W (24V)
Battery Type	User, Flooded, AGM, GEL, LifePO4, Lithium, Sealed		
Equalize Charge	SLD: 14.6V GEL: null FLD: 14.8V		
Absorption Charge	SLD: 14.4V GEL: 14.2V FLD: 14.6V		
Float Charge	SLD,GEL,FLD: 13.8V		
Low Voltage Disconnection	SLD,GEL,FLD: 10.8V		
Low Voltage Reconnection	SLD,GEL,FLD: 12.6V		
No Load Consumption	≤40mA		
High Voltage Disconnection	16V		
Equalize Charge Time	2 Hours		
Absorption Charge Time	2 Hours		
Light Control Voltage	5V		
Temperature Compensation	-4mV/cell/°C		
Charge Loop Voltage Drop	≤0.2V		
Discharge Loop Voltage Drop	≤0.16V		
LCD Screen Temperature Range	-20~+70°C		
Working Temperature	-20~+55°C		
Storage Temperature	-20~+80°C		
Humidity	0~90%, nocondensation		
Grounding	Positive Grounding		

CHARGE CONTROLLERS

PWM CHARGE CONTROLLER LT SERIES

10/20/30/40/50/60A



Key Features:

- Automatic system voltage detection 12V/24V.
- Parameters adjustable via large LCD display.
- High-efficiency 3-stage PWM charge management.
- Timing function.
- Built-in short circuit protection, open circuit protection, reverse polarity protection, overload protection.
- High charge and discharge protections.
- Dual MOSFET reverse current protection
- Low heat generation.
- USB 5V output.
- Phone and laptop charging via USB output.



For Off-Grid User



Multi Stage Smart Charger Design



LCD Display

Technical Specifications

MODEL	SOL-LT-10	SOL-LT-20	SOL-LT-30	SOL-LT-40	SOL-LT-50	SOL-LT-60
Max. Charging Current	10A	20A	30A	40A	50A	60A
Max. Discharge Current	10A	20A	30A	40A	50A	60A
Max. PV Voltage	50V	50V	50V	50V	100V	100V
Max. PV Input Power	130W(12V) 260W(24V)	260W(12V) 520W(24V)	390W(12V) 780W(24V)	520W(12V) 1040W(24V)	650W(12V) 1300W(24V) 2600W(48V)	780W(12V) 1560W(24V) 3120W(48V)
LVD	11.0V ADJ 9.0V...12.0V ; X2 24V for systems					
LVR	12.6V ADJ 11.0V...13.5V ; X2 24V for systems					
Variable Voltage	13.8V ADJ 13.0V...15.0V ; X2 24V for systems					
Boost Voltage	14.4V ; X2 24V for systems Charges for 2 hours when the Battery Voltage drops below 12V					
Battery High Voltage Protection	16.5v ; X2 for 24V					
Reverse Connection Protection	Available					
High Current Protection	Available. It restarts every 2 minutes.					
Charge Type	PWM					
Temperature Coefficient	-24mV/°C for 12V systems; For X2 24V systems					
Operating temperature	-20°C---+55°C					
Terminal Scale	28---10 AWG					
Waterproof Rating	IP32					
Dimension	137mm*85mm*32mm					
Dead Weight	220g					

CONNECTORS

MC4 CONNECTORS- SOL SERIES (MC-4/T21/T31)



Technical Specifications

MODEL	SOL-MC4	SOL-T21	SOL-T31
Connector System		Φ4mm-6mm	
Rated Voltage		1000V DC (IEC)	
Rated Current		30A (Φ4mm-6mm)	
Test Voltage		6kV (50Hz,1min)	
Ambient Temperature Range		40°C ... +90°C (IEC)	
Upper Limiting Temperature		+105°C (IEC)	
Degree of Protection, Mated		Ip67	
Degree of Protection, Unmated		IP2X	
Contact Resistance of Plug Connectors		0.5mΩ	
Contact Material		Messing, Verzinkt Copper Alloy, Tin Plated	
Insulation Material		PC/PPO	
Locking System		Snap-in	
Flame Class		UL-94-V0	
Salt Mist Spray Test, Degree of Severity 5		IEC 60068-2-52	

CONNECTORS

MC4 CONNECTORS-SOL-1500 SERIES



Technical Specifications

MODEL	1500V MC4 CONNECTOR SET
Connector System	Φ4mm
Rated Voltage	1500V DC
Rated Current	30A (1.5mm ² - 10mm ²) 50A
Test Voltage	8kV (50Hz,1min)
Ambient Temperature Range	...40°C ... +90°C
Upper Limiting Temperature	+105°C
Degree of Protection, Mated	Ip68
Degree of Protection, Unmated	IP2X
Contact Resistance of Plug Connectors	0.5mΩ
Safety Class	II
Contact Material	Messing, Verzinkt Copper Alloy, Tin Plated
Insulation Material	PC/PV
Locking System	Snap-in
Flame Class	UL-94-V0
Salt Mist Spray Test, Degree of Severity 5	IEC 60068-2-52

FUSES

DC FUSES

SOLAR PV DC FUSE 16/32A



Key Features:

- PV fuse links are especially optimized for protection in photovoltaic systems. It is a cylindrical type fuse defined according to the international standards IEC-60269-6, DIN VDE 0636-6 and NFC 63 210. IEC 60269-6 defines special requirements in the category of photovoltaic systems and these standards are fulfilled by Solinved fuses.

FUSE HOLDER

DC FUSE AND HOLDER

FUSE HOLDER SERIES



Key Features:

- NH fuse-links for photovoltaic applications are mainly applied in PV array junction boxes or directly in central inverters.
- Fuse-bases offer space saving protection when applied in central inverters or PV array junction boxes.
- The SOLINVED fuseway for photovoltaic applications is based on busbar mountable distribution components and allows for a time and space-saving installation.
- PV cylindrical fuses are applied in junction boxes for protection of single PV strings Compact standard size 10×38 and DC1000V/16A and 1000V/32A



SOLAR ENERGY EQUIPMENTS



Factory

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