GEORGE PAX NEW ENERGY STORAGE SYSTEM

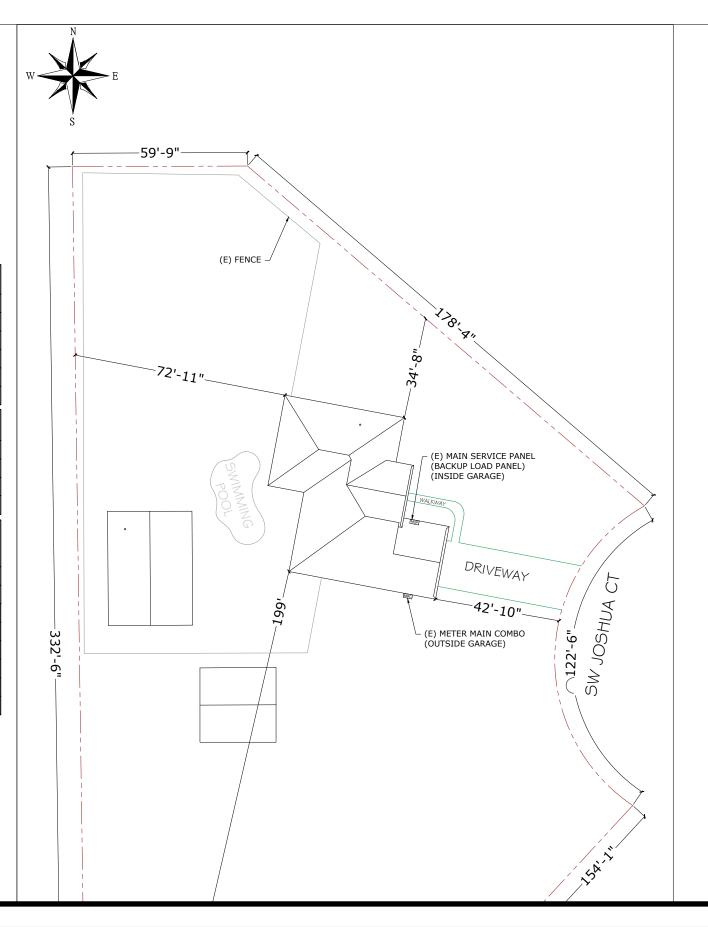
SYSTEM DETAILS NEW GRID-INTERACTIVE ENERGY DESCRIPTION AC RATING OF SYSTEM 12 KW AC OUTPUT CURRENT NO. OF INVERTERS (N) (1) EG4 18KPV-12LV INVERTER (N) (1) EG4 14.3KWH POWERPRO BATTERIES NO. OF BATTERIES

SITE DETAILS				
ASHRAE EXTREME LOW	-6°C			
ASHRAE 2% HIGH	34°C			
GROUND SNOW LOAD	4 LBS			
WIND SPEED	119 MPH (ASCE 7-22)			
RISK CATEGORY	II			
WIND EXPOSURE CATEGORY	В			

GOVERNING CODES

FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 (FRC) FLORIDA BUILDING CODE, 8TH EDITION 2023 (FBC) FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2023 (FFPC) NATIONAL ELECTRICAL CODE, NEC 2020 CODE BOOK, NFPA 70

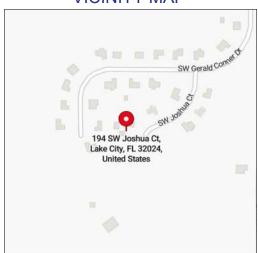
SHEET INDEX		
SHEET NO. SHEET NAME		
A - 01	SITE MAP & VICINITY MAP	
A - 02	ROOF PLAN	
E - 01 SINGLE LINE DIAGRAM		
E - 02	WIRING CALCULATIONS	
E- 03 SYSTEM LABELING		
DS - 01 INVERTER DATASHEET		
DS - 02,2.1	BATTERY DATASHEET	



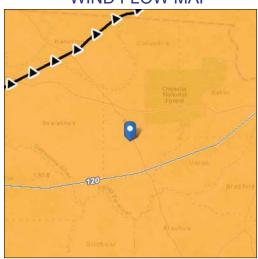
SITE MAP (N.T.S)



VICINITY MAP



WIND FLOW MAP



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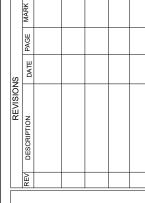
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SHEET NAME

SITE MAP & **VICINITY MAP**

SHEET NUMBER

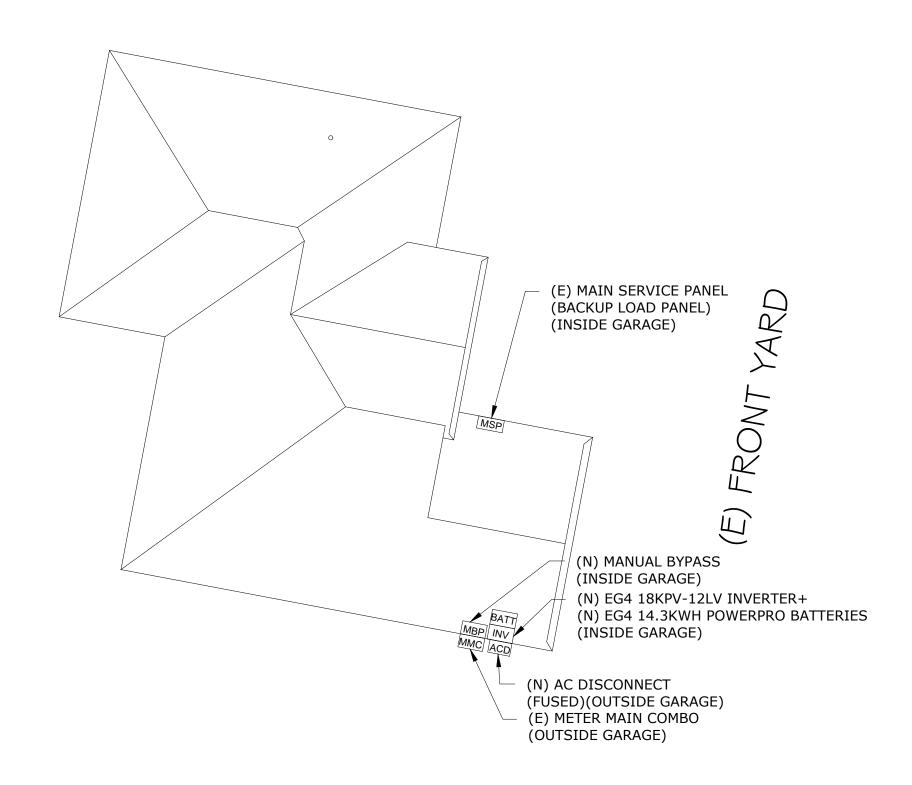
A-01



NEW INVERTER SPECIFICATIONS				
MANUFACTURER	EG4			
MODEL NO.	EG4 18KPV-12LV			
PEAK OUTPUT POWER	12000 W			
NOMINAL AC OUTPUT VOLTAGE	240 V			
NOMINAL AC OUTPUT CURRENT	50 A			

NEW BATTERY SPECIFICATIONS				
MANUFACTURER	EG4			
MODEL NO.	EG4 14.3KWH POWER PRO			
MAX ENERGY CAPACITY	14.3 kwh			
VOLTAGE	51.2 A			

(E) BACK YARD





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CITY

LEGENDS

UM - UTILITY METER

- MAIN SERVICE PANEL (BACKUP LOAD PANEL)

MBP - MANUAL BYPASS

JB - JUNCTION BOX

ACD - AC DISCONNECT

NVT - INVERTER

BATT - BATTERY

- FIRE SETBACK

- ROOF ACCESS POINT

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- - CONDUIT

ROOF PLAN

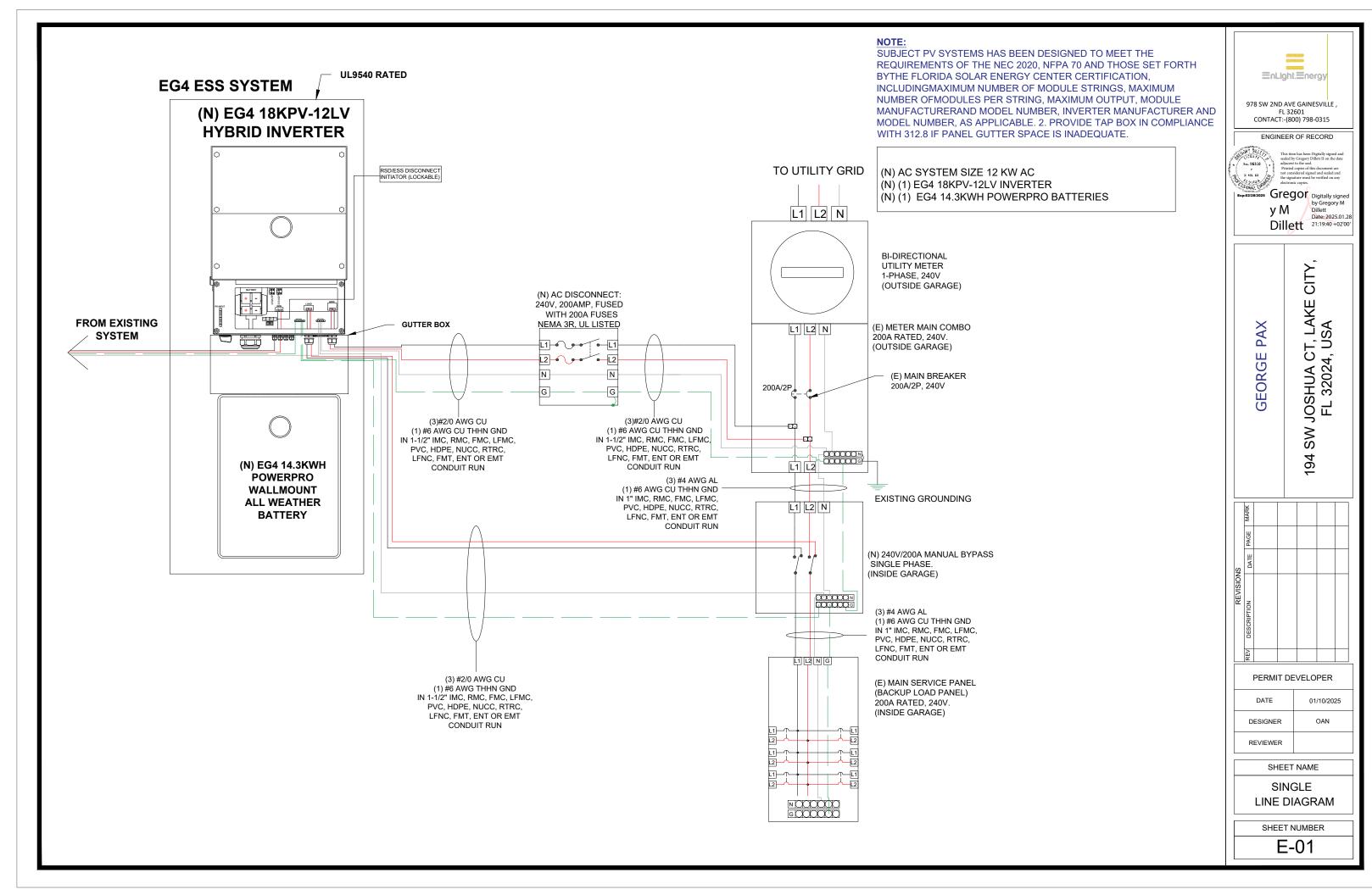
DESIGNER

REVIEWER

PERMIT DEVELOPER

SHEET NUMBER

A-02



ELECTRICAL CALCULATIONS:

1. BATTERY CURRENT PROTECTION ...NEC 690.9(B)

=TOTAL INVERTER O/P CURRENT x 1.25 =(1x50) x 1.25 = 62.5 A SELECTED OCPD = 200A

SELECTED EQUIPMENT GROUND CONDUCTOR (EGC) = #6 THHN ... NEC 250.122

NEW INVERTER SPECIFICATIONS			
MANUFACTURER	EG4		
MODEL NO.	EG4 18KPV-12LV		
PEAK OUTPUT POWER	12000 W		
NOMINAL AC OUTPUT VOLTAGE	240 V		
NOMINAL AC OUTPUT CURRENT	50 A		
	· · · · · · · · · · · · · · · · · · ·		

NEW BATTERY SPECIFICATIONS			
MANUFACTURER	EG4		
MODEL NO.	EG4 14.3KWH POWER PRO		
MAX ENERGY CAPACITY	14.3 kwh		
VOLTAGE	51.2 A		

ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL AND LABELED FOR ITS APPLICATION.
- 2. COPPER CONDUCTORS SHALL BE RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT. THE TERMINALS ARE RATED FOR 75 DEGREE C ROMEX/NM-B (NONMETALLIC-SHEATHED) CABLE MAY BE USED FOR BOTH EXPOSED AND CONCEALED WORK IN NORMALLY DRY LOCATIONS AT TEMPERATURES NOT TO EXCEED 90°C (WITH AMPACITY LIMITED TO THAT FOR 60°C CONDUCTORS) AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE. VOLTAGE RATING FOR NM-B CABLE IS 600 VOLTS.
- 3. CONDUCTOR TERMINATION AND SPLICING AS PER NEC 110.14 WIRING, CONDUIT AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.265. WORKING CLEARANCES AROUND ALL NEW AND EXISTING
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6. WHERE SIZES OF JUNCTION BOXES, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 10. THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE.
- 11. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.
- 12. MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- 13. RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- 14. CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C) (1) AND ARTICLE 310.10 (D).
- 15. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).



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	DATE		01/10/2025					
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SHEET NAME
WIRING
CALCULATIONS

REVIEWER

SHEET NUMBER

A WARNING

ELECTRIC SHOCK HAZARD

DO NOT TOUCH TERMINALS **TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED** IN THE OPEN POSITION

LABEL LOCATION:

AC DISCONNECT, POINT OF INTERCONNECTION, COMBINER PANEL

(PER CODE: NEC 690.13(B))

WARNING PHOTOVOLTAIC **POWER SOURCE**

LABEL LOCATION: CONDUIT RUNWAY (PER CODE: NEC690.31(D)(2))



LABEL LOCATION: MAIN SERVICE DISCONNECT (NEC 705.12(C) & NEC 690.59)

ADHESIVE FASTENED SIGNS:

·ANSI Z535.4-2011 PRODUCT SAFETY SIGNS AND LABELS, PROVIDES GUIDELINES FOR SUITABLE FONT SIZES, WORDS, COLORS, SYMBOLS, AND LOCATION REQUIREMENTS FOR LABELS. NEC 110.21(B)(1) THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. NEC 110.21(B)(3) ADHESIVE FASTENED SIGNS MAY BE ACCEPTABLE IF PROPERLY ADHERED. VINYL SIGNS SHALL BE WEATHER RESISTANT. IFC 605.11.1.3

PHOTOVOLTAIC SYSTEM **EOUIPPED WITH RAPID SHUTDOWN**

LABEL LOCATION: AC DISCONNECT, DC DISCONNECT, POINT OF INTERCONNECTION (PER CODE: NEC 690.56(C))

▲ WARNING INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS

OVERCURRENT DEVICE

EMERGENCY CONTACT (800) 798-0315

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED AC OPERATING CURRENT 50 AMPS AC NOMINAL OPERATING VOLTAGE 240 VOLTS

LABEL LOCATION: AC DISCONNECT, INVERTER (PER CODE: NEC 690.54)

WARNING INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:

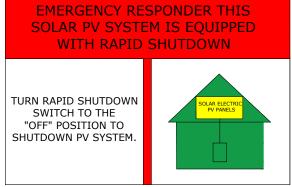
POINT OF INTERCONNECTION, MAIN SERVICE DISCONNECT

(PER CODE: NEC 705.12 (B)(3)(3))

Not required if panelboard is rated not less than sum of ampere ratings of all overcurrent devices supplying it]

LABEL LOCATION: COMBINER PANEL, AC DISCONNECT (PER CODE: NEC 690.52)

WARNING DEDICATED SOLAR PANELS DO NOT CONNECT ANY OTHER LOADS



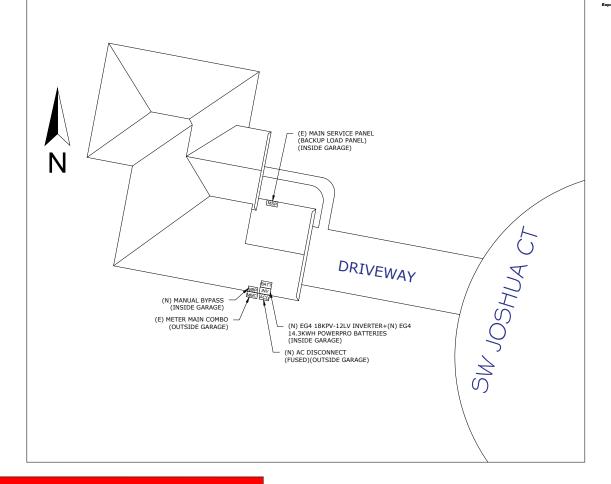
NEC690.56(C)(1) AND NFPA 111.12.2.1.1.1, 11.12.2.1.4

A CAUTION TRI POWER SOURCES

SECOND SOURCE IS PV SYSTEM THIRD SOURCE IS DC BATTERY

CAUTION

MULTIPLE SOURCES OF POWER WITH DISCONNECTS LOCATED AS SHOWN:



AUXILIARY GENERATION DISCONNECT

LABEL LOCATION:

WARNING

ELECTRIC SHOCK HAZARD DO NOT TOUCH TERMINALS TERMINALS ON BOTH THE LINE AND LOADS SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION: **METER**



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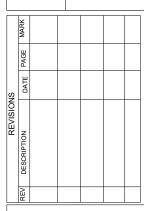
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PERMIT DEVELOPER 01/10/2025 OAN DESIGNER REVIEWER

SHEET NAME

SYSTEM **LABELING**

SHEET NUMBER E-03



EG4® Electronics | Specification Sheet

Nominal AC Voltage

AC Grid Output Data

Operating Voltage Range

Operating Frequency Phase Shift

Sync Inrush Current

Rated Output Power (W)

Max Cont. Line Wattage

Peak Power (W)

Switching Time

Number of MPPTs

Inputs per MPPT

Max. Short Circuit Input Current

Load Output Minimum Voltage

MPP Operating Voltage Range

Full Power MPPT Voltage Range

Maximum Utilized Solar Power Recommended Maximum Solar Input

Nominal MPPT Voltage

DC Input Voltage Range

Unit Startup Voltage

PV Input Data

Nominal Power Output (W)

Reactive Power Adjust Range

Backup/UPS AC Output Data

Rated Output Current (240V/208V) AC Bypass (Generator)

THDV (Total Harmonic Distortion Voltage)

AC Bypass (Grid)

Rated Voltage

Max. Continuous Output Current

Frequency Max. Continuous AC Current EG4® Electronics | Specification Sheet

240 | 208VAC

50A

200A 240VAC

180-270VAC

@240V 12kW/@208V 10.4kW

0.99@ full load

(-0.8) – (+0.8) leading adjustable

35A

240 | 120/240 | 120/208 VAC

@240VAC 12kW/@208VAC 10.4kW

With PV: 14.7kW (10 min), 15.5kW (5 min)

Without PV: 13.5kW (10 min)

10ms

31/19/19A

100-600 VDC

100 VDC

>140 VDC 120-500 VDC

230-500 VDC

360 VDC

211/1/

EG4® 18KPV-12LV

Hybrid Inverter/Charger

EG4® Electronics | Specification Sheet

EG4® 18KPV-12LV

Hybrid Inverter/Charger

The EG4® 18KPV is a 48V split phase, hybrid inverter/charger capable of utilizing 18kW of PV and efficiently outputting 12kW of power while charging your battery bank. You can parallel up to 10 units for 120kWs of AC power and control multiple stations and units using the new EG4® monitoring software.

AC Coupling Capability

Remote Adjustments via EG4® Software

10-Year Warranty

All-In-One Hybrid Inverter

Capable of running entirely off the grid, using grid electricity, or selling power back to the grid.

600VDC Max

The extra high voltage enables lower cable sizing for the 3 MPPTs and a maximum recommended PV input of 21,000W. Eliminating the need for a combiner box.

Mountable Wi-Fi Device

Enables wireless connection between our new monitoring platform and the 18KPV through the app or online website.

Closed-Loop Communications

Able to communicate with EG4® 48V batteries and other battery brands. *A firmware update is required for closed-loop communications with LifePower4 batteries.

High Frequency, Split Phase Output

Allows for 120/240V with a single unit or 120/208VAC service operation.

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Ver. 1.2.1 | Specifications subject to change without







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EG4® 18KPV-12LV

Hybrid Inverter/Charger

Efficiency			
Max. Efficiency @ PV to Grid	97.5%		
Max. Efficiency @ Battery to Grid	94%		
MPPT Efficiency	99.9%		
Battery Charging Efficiency	95%		
Battery Discharging Efficiency	94.5%		
Idle Consumption (Normal mode)	≈70W		
Idle Consumption (Standby mode)	≈18W		
Battery Data			
Type	Lead-acid battery/Lithium battery		
Max. Charge/ Discharge Current	250A		
Nominal Voltage	48 VDC		
Voltage Range	40-60 VDC		
General Data			
Integrated Disconnect	DC switch		
PV Reverse Polarity Protection	Yes		
DC Switch Rating for each MPPT	Yes		
Output Over-Voltage Protection Varistor	Yes		
Output Over-Current Protection	Yes		
Grid Monitoring	Yes		
Anti-islanding Protection (Fast Zero Export)	Yes		
Pole Sensitive Leakage Current Monitoring Unit	Yes		
Surge Protection Device	Yes		
Dimensions H×W×D	34.3×20.5×11.2 in. (87×52×28.5 cm)		
Weight	121.25 lbs (55kg) 132.28 lbs (60kg) with the packaging		
Cooling Concept	Fan		
Topology	TL (Transformerless)		
Relative Humidity	0-100%		
Altitude	<2,000m		
Operating Temperature Range	-25~60°C, >45° derating		
Noise Emission	68dB @3ft		
Display	Color touchscreen		
Communication Interface	RS485/WI-FI/CAN		
Standard Warranty	10* year standard warranty *See EG4* Warranty Registration for terms and cond		

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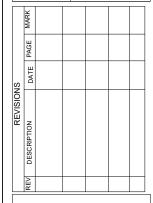
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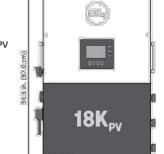
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SHEET NAME

INVERTER **DATASHEET**

SHEET NUMBER

DS-01





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EG4® WALLMOUNT INDOOR 280Ah LITHIUM BATTERY

The WallMount Indoor 280Ah batteries are ideal for low-voltage residential indoor energy storage applications. The batteries use lithium iron phosphate cells with the highest safety performance and an intelligent Battery Management System (BMS) that can monitor and record the voltage of each cell along with the current, voltage, and temperature of the module in real-time. The BMS also contains a passive balance function and an advanced battery control method, both of which improve the performance of the battery pack.

BUILT-IN **200A BMS** INTEGRATED

LIFETIME PRODUCTION*

10 YEAR WARRANTY 80% DOD

Easy to see BMS monitoring, and selectable closed-loop communications with EG4, Schneider,

DUAL ON-BOARD FIRE ARRESTORS

INTEGRATED SELF-HEATING FEATURE

Internal heating keeps cells operating during cold temperatures.

INTEGRATED BUSBARS

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MODEL #: WM-48|280-LL-00 / WM-48-280-1-IN-LL-00

VERSION 1.1.3 | INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE.

The battery design comes manufactured with 600A internal busbars with multiple terminals (4 positive & 4 negative) eliminating the need for external busbars when paralleling batteries and/or multiple

INNOVATIVE EMERGENCY STOP FUNCTION

The optional ESS disconnect can shut down all batteries and inverters (if equipped with rapid shut

THE PERFECT PARTNER TO EG4 INVERTERS

inverters allowing a sleek and efficient installation. For other inverters or standalone battery installation, the conduit box plugs should be installed.



600A BUSBARS

82.6MWh

>8000 CYCLES @

ON-BOARD LCD TOUCH SCREEN

Sol-Ark, Victron, Growatt, Megarevo, Luxpower, and Deye inverters.

Offer fail-safe protection against thermal runaway.

down capability) with the press of a button.

The optional conduit box mates up directly to the connection ports of EG4



EG4 ELECTRONICS

TECHNICAL SPECIFICATIONS

PARAMETER	В	MS	RECOMMENDED SETTING	
TOTAL ENERGY CAPACITY		5C, 100% SOC	-	
VOLTAGE		1.2V	2	
CAPACITY	28	0Ah	-	
CHARGING VOLTAGE (BULK/ABSORB)	56.0V	(+/-0.8V)	56.2V (+/-0.2V)	
FLOAT		-	54V (+/-0.2V)	
SOC CUTOFF		*	20%*	
CHARGING CURRENT	200A (Max	. continuous)	60A – 160A	
DISCHARGING CURRENT	200A (Max	. continuous)	160A	
DISCHARGE RATE	10.24kW (Ma	ax. continuous)	=	
BMS PARAMETERS				
CHARGE	SPEC	DELAY	RECOVERY	
CELL VOLTAGE PROTECTION	3.8V	1 sec	3.45V	
MODULE VOLTAGE PROTECTION	60.0V	1 sec	55.2V	
OVER CHARGING CURRENT 1	>205A	10 sec	-	
OVER CHARGING CURRENT 2	>225A 3 sec			
TEMPERATURE PROTECTION	<23°F or >158°F <-5°C or >70°C	1 sec	>32°F or <140°F >0°C or <60°C	
DISCHARGE	SPEC DELAY		RECOVERY	
CELL VOLTAGE PROTECTION	2.3V	1 sec	3.1V	
MODULE VOLTAGE PROTECTION	44.8V	1 sec	48V	
OVER-CHARGING CURRENT 1	>205A	10 sec	60 sec	
OVER-CHARGING CURRENT 2	>300A	3 sec	60 sec	
SHORT CIRCUIT	>600A	<0.1 mS	-	
TEMPERATURE PROTECTION	<-4°F or >167°F <-20°C or >75°C	1 sec	>14°F or <149°F >-10°C or <65°C	
PCB TEMP PROTECTION	>230°F (>110°C)	1 sec	@ <176°F (<80°C)	
GENERAL SPECIFICATIONS				
PARAMETER	SI	PEC	CONDITION	
CELL BALANCE	120mA	Passive Balance	Cell Voltage Difference >40mV	
TEMPERATURE ACCURACY	3%	Cycle Measurement	Measuring Range -40°F to ≈212°I	
VOLTAGE ACCURACY	0.5%	Cycle Measurement	(-40°C to ≈100°C) For Cells & Module	
CURRENT ACCURACY	3%	Cycle Measurement	Measuring Range -200A - 200A	
SOC	5%		Integral Calculation	
POWER CONSUMPTION	Sleep & Off Mode	<300uA	Storage/Transport/Standby	
POWER CONSUMPTION	Operating Mode	<25mA	Charging/Discharging	
COMMUNICATION PORTS	RS485/CAN		Can be customized	
BATTERY HEATER SPECIFICATION	vs			
PARAMETER		PEC	CONDITION	
VOLTAGE		6V	-	
POWER CONSUMPTION		24W	#:	
INTERNAL BATTERY TEMPERATURE	≤32°F (0°C)/≥41°F (5°C)	Heat On/Heat Off	



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> SHEET NAME **BATTERY**

DATASHEET

SHEET NUMBER

DS-02

EG4 ELECTRONICS

ENVIRONMENTAL PARAMETERS	
CHARGING RANGE	32° to ≈113°F (0°C to ≈45°C)
DISCHARGING RANGE	-4°F to ≈122°F (-20°C to ≈50°C)
STORAGE RANGE	-4°F to ≈122°F (-20°C to ≈50°C)
INGRESS PROTECTION	IP20
PHYSICAL SPECIFICATIONS	
DIMENSIONS (H×W×D)	36.4 in.×18.1 in.×9.6 in. (925 mm×460 mm×245 mm)
WEIGHT	282.2 lbs. (128 kg)
DESIGN LIFE	>10 Years
CYCLE LIFE	>8000 cycles, 0.5C 80% DOD
LIFETIME PRODUCTION	82.6MWh**
SAFETY CERTIFICATIONS	
CERTIFICATIONS	UL1973, UL 9540A (Passed)

^{*}EG4 recommends this value be set no lower than 20% to maintain the recommended 80% depth of discharge.

EG4 ELECTRONICS

CHANGELOG

Version 1.1.3

- Replaced Low DC Cutoff with SOC Cutoff at 20% with a note under the table.
- Minor formatting changes

Version 1.1.2

- Added 2 line items to the spec sheet notating Total Energy Capacity and Max Continuous Discharge Rate
- Minor formatting changes
- · Greyscale image added to front page

Version 1.1.1

- · Changed verbiage on page 1 of the document
- Added changelog

- Changed verbiage on page 1 of the document
- Changed UL 9540A certification from (Testing) to (Passed)

Version 1.0

· First iteration of the completed Spec Sheet



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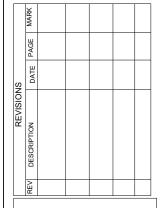


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REVIEWER

SHEET NAME

BATTERY DATASHEET

SHEET NUMBER

DS-02.1

^{**(51.2}V×280Ah/1000×80%×8000 cycles/1000)90%=MWh