

The logo features the text "EG4" in a bold, white, sans-serif font. The letters are contained within a dark gray circle that has a subtle 3D effect with a lighter gray outer ring. The background of the entire page is a dark gray with a faint, intricate circuit board pattern in a lighter gray tone, showing various electronic components and connecting lines.

EG4

PREMIUM ENERGY STORAGE AT
AN UNBEATABLE PRICE

2025 Q1 PRODUCT GUIDE



OUR VALUES



INNOVATION



ACCESSABILITY



CUSTOMER



INTEGRITY

ABOUT EG4 ELECTRONICS

As America's fastest-growing energy storage solutions manufacturer, EG4 Electronics delivers cutting-edge solar and battery systems engineered for everyone. Based in Texas and proudly designed in the USA, we've powered over 30,000+ successful installations with our comprehensive range of ESS systems, batteries, and smart energy solutions. Our mission is simple: make energy independence accessible through safe, affordable, and innovative storage solutions that optimize installation time and maximize value.



SULPHUR SPRINGS,
TEXAS

The logo consists of the letters "EG4" in a bold, sans-serif font, enclosed within a black circle. The units are grey metal cabinets with a handle on the right side. The top unit is labeled "FLEXBOSS 21" and "LW POWER™".

EG4

The logo consists of the letters "EG4" in a bold, sans-serif font, enclosed within a black circle. The units are grey metal cabinets with a handle on the right side. The top unit is labeled "FLEXBOSS 21" and "LW POWER™".

EG4

LW POWER™

FLEXBOSS 21

LW POWER™

FLEXBOSS 21

SELL

MORE

WITH EG4

HOW EG4 WINS YOU **MORE**

At EG4 Electronics, we equip you with the essential tools and resources to thrive in a competitive market. We understand the challenges installers face, so we offer comprehensive US-based support. Backed by 30,000+ successful installations, our proven support system helps you close more deals and maximize profits.



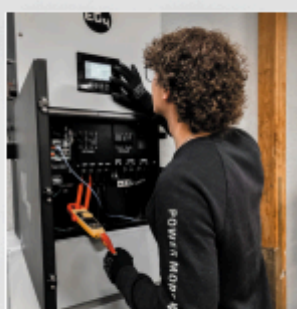
TECHNICAL
TRAINING



SALES TEAM
TRAINING



UNPARALLELED
SUPPORT



INSTALLATION
TRAINING

Our technical and sales training focuses on mini splits, retrofitting, and low-cost whole home backup battery solutions. Our installer training includes versatile methods such as our training truck, onsite training, and virtual training.

With unparalleled support, you gain access to all these training programs, technical experts, design engineering, utilities, and PTO support.

SCAN HERE TO BECOME AN
ELITE EG4 INSTALLER



EG4® POWERPRO ESS



EG4 Electronics's versatile Energy Storage Systems (ESS) scale with your needs, allowing for seamless expansion as your energy requirements evolve over time.

- May be used as grid-tie or off-grid system
- Can incorporate generators
- Features AC coupling
- E-Stop integration



POWERPRO FLEXBOSS21 WALLMOUNT ALL WEATHER ESS CONFIGURATIONS

MIN UL9540 CONFIGURATION: 1 EG4 FlexBOSS21 Hybrid Inverter and
1 PowerPro WallMount All Weather 280Ah Battery

MAX UL9540 CONFIGURATION: 3 EG4 FlexBOSS21 Hybrid Inverters
and 6 PowerPro WallMount All Weather 280Ah Batteries



*Power more with
GRIDBOSS integration



BOSSBOX



The EG4 BOSSBox is an all-in-one energy storage enclosure that transforms any location into a powerful energy hub.

- Houses up to two 18kW hybrid inverters and three WallMount batteries
- Weather-resistant Q235 steel construction with epoxy coating
- Zero-noise operation with no fuel or maintenance costs
- Perfect for disaster relief, events, or home backup power
- Compatible with multiple EG4 inverter configurations



100AH WALLMOUNT BATTERY



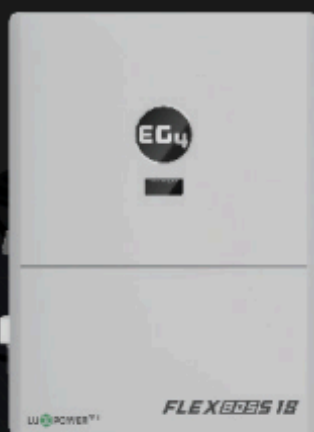
The EG4 WallMount 100Ah Battery is a sophisticated indoor energy storage solution that combines advanced safety features with smart monitoring capabilities for residential applications.

- Built-in 100Ah BMS with passive balancing & real-time monitoring
- Integrated 150A busbar for seamless power distribution
- 5.12kWh total capacity
- Streamlined installation with quick-connect terminals and optional conduit box



MODULE OPERATING PARAMETERS			
PARAMETER	BMS		RECOMMENDED SETTING
TOTAL ENERGY CAPACITY	5.12 KWH		-
VOLTAGE	51.2V		-
CAPACTIY	100AH		-
CHARGING VOLTAGE (BULK/ABSORB)	56.0V (+/-0.2V)		56.2V (+/-0.2V)
SOC CUTOFF	-		*20%
CHARGING CURRENT	100A (MAX. CONTINUOUS)		50A
DISCHARGING CURRENT	100A (MAX. CONTINUOUS)		50A
ENVIRONMENTAL PARAMETERS			
CHARGING RANGE	32° TO 122°F (0°C TO =50°C)		
DISCHARGING RANGE	-4°F TO 131°F (-20°C TO =55°C)		
STORAGE RANGE	*32°F TO 113°F (-0°C TO =45°C)		
INGRESS PROTECTION	IP20		
CHARGING/ DISCHARGING 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	>102A	20 SEC	-
OVER CHARGING CURRENT 2	>120A	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			
CELL VOLTAGE PROTECTION	2.3V	1 SEC	3.1V
MODULE VOLTAGE PROTECTION	44.8V	1 SEC	48V
OVER-CHARGING CURRENT 1	>102A	30 SEC	60SEC
OVER-CHARGING CURRENT 2	<150A	3 SEC	60 SEC
SHORT CIRCUIT	>250A	<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
GENERAL SPECIFICATIONS			
PARAMETER	SPEC	TYPE	CONDITION
PCB TEMP PROTECTION	>221°F (>105°C)	DELAY: 1 SEC	@ <176°F (<80°C)
CELL BALANCE	120mA	PASSIVE BALANCE	CELL VOLTAGE DIFFERENCE >40mV
TEMPERATURE ACCURACY	3%	CYCLE MEASUREMENT	MEASURING RANGE -40°F TO =212°F (-40°C TO =100°C)
VOLTAGE ACCURACY	0.5%	CYCLE MEASUREMENT	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	<14mA	CHARGING/DISCHARGING
COMMUNICATION PORTS	RS485/CAN		CAN BE CUSTOMIZED
STANDARDS AND CERTIFICATIONS			
MODULE	UL 9540A		
CELL	UL 1973		
PHYSICAL SPECIFICATIONS			
DIMENSIONS (H*W*D)	6.5X17.8X23.2 IN. (165X453X590 MM)		
WEIGHT	108 LBS. (49 KG)		
DESIGN LIFE	>15 YEARS		
CYCLE LIFE	>6000 CYCLES, 0.5°C, 80% DOD		
LIFETIME PRODUCTION	**24.5MWH		

FLEXBOSS18



The EG4 FlexBOSS18 is an affordable entry-level hybrid inverter that delivers professional-grade performance for residential solar installations, combining robust power output with comprehensive certifications

- Outputs 13kW continuous power with solar PV support
- Handles up to 18kW of solar input through multiple MPPTs
- Delivers 10kW of continuous power from battery alone
- Seamlessly integrates with GridBOSS and WallMount batteries



AC INPUT DATA		BATTERY DATA	
NOMINAL AC VOLTAGE	120/240VAC	COMPATIBLE BATTERY TYPES	Lithium/Lead-acid
FREQUENCY	60 Hz (Default) 50 Hz (Capable)	MAX. CHARGE/DISCHARGE CURRENT	195A - 208A @48 VDC
MAX. AC CURRENT FOR CHARGING BATTERY @ 240V	41.6A at 240V	MAX. CHARGE/DISCHARGE POWER (OFF-)	10kW
MAX. AC INPUT POWER FOR CHARGING BATTERY	10kW	NOMINAL VOLTAGE	48 VDC
MAX. AC CURRENT FOR CHARGING BATTERY @ 208V	48.07A at 208V	VOLTAGE RANGE	40 - 60 VDC (Lithium); 40 - 60 VDC (Lead-acid)
MAX. AC PASSTHROUGH BYPASS	90A		
ON-GRID OUTPUT DATA		EFFICIENCY	
CONTINUOUS OUTPUT (with PV)	13kW (54A @ 240V) 11.2kW (54A @ 208V)	MAX. EFFICIENCY (PV TO GRID)	97.50%
CONTINUOUS OUTPUT (with battery only)	10kW (41.66A @ 240V) 10kW (48.07A @208V)	MAX. EFFICIENCY (BATTERY TO GRID)	94%
NOMINAL OUTPUT VOLTAGE	240VAC; 208VAC	MAX. EFFICIENCY (PV TO BATTERY)	94.50%
OUTPUT FREQUENCY	60 Hz (Default) 50 Hz (Capable)	IDLE CONSUMPTION (STANDBY MODE)	<60W
REACTIVE POWER ADJUST RANGE	(-0.8) - (+0.8) Leading Adjustable		
THDI	<5% at full load	GENERAL DATA	
OFF-GRID DATA (BACKUP OUTPUT)		MAX. UNITS IN PARALLEL	?
CONTINUOUS OUTPUT (with battery only)	10kW (41.66A @ 240V) 10kW (48.07A @ 208V)	PRODUCT DIMENSIONS (HxWxD)	29.52x20.47x10.43 in. (750x520x265mm)
BACKUP NOMINAL OUTPUT VOLTAGE	120/240 VAC 120/208 VAC	UNIT WEIGHT	52kg
BACKUP NOMINAL OUTPUT FREQUENCY	60 Hz (Default) 50 Hz (Capable)	DESIGN TOPOLOGY	High Frequency - Transformerless
THDv	<3% at full load	RELATIVE HUMIDITY	0 -100%
SWITCHING TIME	20ms (Default), 10ms (Configurable) Parallel - 20ms	OPERATING ALTITUDE	<2000m (<6561ft)
PV INPUT DATA		OPERATING AMBIENT TEMPERATURE RANGE	-13°F - 140°F (-25°C - 60°C); > 45°C Derating)
NUMBER OF MPPTS	2	STORAGE TEMPERATURE RANGE	-13°F - 140°F (-25°C - 60°C)
INPUTS PER MPPT	2/2	NOISE EMISSION (TYPICAL)	<50 dB @ 3 ft
MAX. USABLE INPUT CURRENT	26A/26A	COMMUNICATION INTERFACE	RS485/Wi-Fi/CAN, Sunspec Modbus RTU
MAX. SHORT CIRCUIT INPUT CURRENT	31A/31A	STANDARD WARRANTY	10-year standard warranty***
DC INPUT VOLTAGE RANGE	100 -600VDC	SAFETY FEATURES	Integrated DC disconnect, Reverse polarity protection, Output over-voltage protection varistor, Output over current protection, Ground fault monitoring, Grid monitoring, Pole sensitive leakage current monitoring unit, AFCI, RSD
UNIT START-UP VOLTAGE	100VDC		
MPPT OPERATING VOLTAGE RANGE	120 - 440VDC		
FULL POWER MPPT VOLTAGE RANGE	250V - 440V		
NOMINAL MPPT VOLTAGE	360VDC		
MAX. UTILIZED SOLAR POWER	18kW	STANDARDS AND CERTIFICATIONS	
		UL1741, SA, SB, *PCS CRD (pending)	IEEE 1547.1:2020; IEEE 1547-2018
		California Rule 21 Phase I, II, III	Hawaii Rule 14H (HECO SRD IEEE 1547.1- 2020
		Arc-Fault Circuit Interrupter (AFCI)	Rapid Shutdown (RSD)
		NEC 2020:690.11/UL1699B	NEC 2020:690.12
		Ground Fault Monitoring (GFDI)	FCC Part 15, Class B (PENDING)
		NEC 2020:690.41(B)	
		CSA 22.2107.1:2016 Ed. 4	CSA 22.2.330:2017 Ed. 1

***See EG4 Warranty Registration for terms and conditions

FLEXBOSS21



The EG4 FlexBOSS21 is a powerful hybrid inverter that delivers industry-leading solar capacity and flexible scalability for residential and small commercial installations.

- 21kW usable solar input with three MPPT controllers
- Outputs 12kW continuous power, up to 16kW with solar PV gain
- Supports 90A grid feed-through at 120/240V split-phase
- Compatible with GridBOSS for AC coupling and generator integration
- Compact design at only 88 lbs for easy installation
- Continuous AC power
- Can be controlled using EG4 monitoring software



AC INPUT DATA	
NOMINAL AC VOLTAGE	120/240VAC; 120/208VAC (L1/L2/N required)
FREQUENCY	60 Hz (Default) 50 Hz
MAX. AC CURRENT	50A @ 240V 57.7A @ 208V
MAX. AC INPUT POWER	12kW
MAX. AC BYPASS	90A

AC GRID OUTPUT DATA	
MAX. OUTPUT CURRENT	66.7A
OUTPUT VOLTAGE	120/240VAC; 120/208VAC (L1/L2/N required)
OUTPUT FREQUENCY	60 Hz (Default) 50 Hz
OPERATING VOLTAGE RANGE	180 - 270VAC
NOMINAL POWER OUTPUT	w/ PV: 16000W @240V 13800W @ 208V w/ out PV: 12000W @240V 12000W 208V
POWER FACTOR	.99 @ Full Load
REACTIVE POWER ADJUST RANGE	(-0.8) - (+0.8) Leading Adjustable
TDH @ FULL LOAD	<3%
TRANSFER TIME	20ms (Default), 10ms (Configurable), 20ms (Parallel)

BACKUP/UPS AC OUTPUT DATA	
RATED OUTPUT CURRENT (240 208VAC)	50A 57.7A
NOMINAL OUTPUT VOLTAGE	120/240 120/208 VAC
RATED OUTPUT POWER	12kW @ 240VAC 12kW @ 208VAC
PEAK POWER	.5 sec @ 24kW, 1 sec @ 18kW, 6 min @ 15kW, 12 min @ 13.2kW
OPERATING FREQUENCY	60 Hz (Default) 50 Hz
THDV (TOTAL HARMONIC DISTORTION VOLTAGE)	<5%
TRANSFER TIME	20ms (Default), 10ms (Configurable), 20ms (Parallel)

PV INPUT DATA	
NUMBER OF MPPTS	3
INPUTS PER MPPT	2 (MPPT 1) 2 (MPPT 2) 1 (MPPT 3)
MAX. USABLE INPUT CURRENT	26A (MPPT 1) 26A (MPPT 2) 15A (MPPT)
MAX. SHORT CIRCUIT INPUT CURRENT	31A (MPPT 1) 31A (MPPT 2) 19A (MPPT 3)
DC INPUT VOLTAGE RANGE	100 - 600VDC
UNIT START-UP VOLTAGE	100VDC
MPPT OPERATING VOLTAGE RANGE	120 - 440VDC
NOMINAL MPPT VOLTAGE	360VDC
MAX. UTILIZED SOLAR POWER	21kW
MAX. RECOMMENDED SOLAR INPUT	25kW

EFFICIENCY	
CEC	96.9%
MAX. EFFICIENCY (PV TO GRID)	97%
MAX. EFFICIENCY (BATTERY TO GRID)	94%
MAX. EFFICIENCY (PV TO BATTERY)	94.5%
IDLE CONSUMPTION	<65W

BATTERY DATA	
COMPATIBLE TYPES	Lead-Acid/Lithium
MAX. CHARGE/ DISCHARGE POWER (W)	12000W
NOMINAL VOLTAGE	48 VDC
VOLTAGE RANGE	40 -60 VDC
RECOMMENDED BATTERY CAPACITY PER INVERTER	>300Ah

GENERAL DATA	
MAX. UNITS IN PARALLEL	16
PRODUCT DIMENSIONS (HxWxD)	30.43x22.28x11.22 in. (750x520x285 mm)
UNIT WEIGHT	88 lbs. (52kg)
DESIGN TOPOLOGY	High Frequency - Transformerless
RELATIVE HUMIDITY	0 -100%
OPERATING ALTITUDE	<6561 ft. (<2000 m)
OPERATING AMBIENT TEMPERATURE RANGE	-13°F - 113°F (-25°C - 60°C)
STORAGE TEMPERATURE RANGE	-13°F - 113°F (-25°C - 60°C)
NOISE EMISSION (TYPICAL)	<50 dB @ 3 ft
COMMUNICATION INTERFACE	RS485/Wi-Fi/CAN
STANDARD WARRANTY	10-year standard warranty***
SAFETY FEATURES	Integrated DC disconnect, Reverse polarity protection, Output over-voltage protection varistor, Output over current protection, Ground fault monitoring, Grid monitoring, Pole sensitive leakage current monitoring unit, AFCI, RSD

STANDARDS AND CERTIFICATIONS	
UL1741, SA, SB, PCS CRD	IEEE 1547.1:2020; IEEE 1547:2018
California Rule 21 Phase I, II, III	Hawaii Rule 14H (HIECO SRD IEEE 1547.1-2020
Arc-Fault Circuit Interrupter (AFCI) NEC 2020:690.11/UL1699B	Rapid Shutdown (RSD) NEC 2020:690.12
Ground Fault Monitoring (GFDI) NEC 2020:690.4(B)	FCC Part 15, Class B (PENDING)
CSA 22.2107.1:2016 Ed. 4	CSA 22.2.330:2017 Ed. 1

***See EG4 Warranty Registration for terms and conditions

GRIDBOSS



The EG4 GridBOSS is a Microgrid Interconnect Device (MID) that is the ultimate solution for streamlining complex solar installations.

- 200A service entrance rating with four intelligent ports
- Supports three 90A hybrid inverters and 125A generator input
- Smart load management with programmable AC coupling ports
- Expandable with parallel configuration up to 400A using EG4 monitoring software



GRID		
NOMINAL VOLTAGE	120/240VAC	
FREQUENCY	60 HZ	
MAX. CURRENT	200A	
SERVICE ENTRANCE RATED	22kAIC with 200A Eaton Breaker (model: (CSR2200N) CSR25K)	
GENERATOR		
NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)	
FREQUENCY	60 HZ	
MAX. CURRENT	125A	
NON-BACKUP		
NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)	
FREQUENCY	60 HZ	
MAX. CURRENT	200A	
BACKUP		
NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)	
FREQUENCY	60 HZ	
MAX. CURRENT	200A	
SMART PORTS		
NUMBER OF PORTS	4	
NOMINAL VOLTAGE	120/240VAC (L1/L2/N required)	
FREQUENCY	60 HZ	
MAX. CURRENT PER PORT	1: 125A 2: 80A 3:60A 4: 60A	
GENERAL DATA		
COMMUNICATION INTERFACE	RS485/Wi-Fi/CAN	
IDLE CONSUMPTION	~55W	
TRANSFER TIME	~25 ms	
INTERNAL BUS RATING	350A	
INTERNAL FUSE RATING	315A	
OPERATING ALTITUDE	<6561 ft (<2000m)	
RELATIVE HUMIDITY	0 - 100%	
OUTDOOR RATING	NEMA 3R	
OPERATING AMBIENT TEMPERATURE RATING	-40°F - 140°F (-40°C - 60°C)	
PRODUCT DIMENSIONS (HxWxD)	31.5x19.7x7 in (800x500x178 mm)	
UNIT WEIGHT	55 lbs. (25 kg)	
STANDARD WARRANTY	10-year standard warranty***	

***Install a properly sized breaker based on the connected inverter: 50A - 12kPV; 70A - 18kPV; 90A - FlexBOSS21

STANDARDS AND CERTIFICATIONS		
UL1741, UL67, UL869A*	YES	
FCC PART 15, CLASS B (PENDING)	YES	

*When used with a 200A Eaton CSR25K (CS-R2200N) main breaker.

12KPV ALL-IN-ONE HYBRID INVERTER



Easily integrate solar power into your current energy system or start a new one with the EG4 12kPV, our newest 48V split-phase hybrid inverter/charger.

- MPPTs rated to 12kW; accepts maximum 15kW array
- Powers up to 8kW of loads and uses the rest to charge your batteries
- Produces enough power to start a 5-ton AC
- 120/240 split phase design
- Residential and light commercial applications
- Remote monitoring and programming via EG4 software



AC INPUT DATA					EFFICIENCY	
NOMINAL AC VOLTAGE	120/240VAC;120/208VAC (L1/L2/N required)			MAXIMUM EFFICIENCY (PV TO GRID)	97.5%	
FREQUENCY	50/60Hz			MAXIMUM EFFICIENCY (BATTERY TO GRID)	94%	
MAX. AC INPUT POWER	12000W			CEC WEIGHTED EFFICIENCY	96.4%	
MIN. GENERATOR SIZE	>5000W			MAXIMUM EFFICIENCY (PV TO BATTERY)	99.9%	
MAX. GEN GRID PASSTHROUGH CURRENT	80A 80A			IDLE CONSUMPTION (STANDBY MODE)	<55W	
AC GRID OUTPUT DATA					BATTERY DATA	
MAX. OUTPUT CURRENT	33.3A@240VAC 38.5A @208VAC			COMPATIBLE BATTERY TYPES	Lead-Acid/Lithium	
OUTPUT VOLTAGE	120/240VAC; 120/208VAC			MAX. CHARGE/DISCHARGE CURRENT	167A @ 48 VDC	
NOMINAL POWER OUTPUT	8000W			NOMINAL VOLTAGE	48 VDC	
OUTPUT FREQUENCY	50/60Hz			VOLTAGE RANGE	40-60 VDC (Lithium); 40-60 VDC (Lead-Acid)	
POWER FACTOR	0.99 @ Full Load			RECOMMENDED BATTERY CAPACITY PER INVERTER	>200Ah	
REACTIVE POWER ADJUST RANGE	±0.8			GENERAL DATA		
MAX CONT. LINE WATTAGE	4000W			MAX. UNITS IN PARALLEL	10	
PEAK POWER	0.5s 16kW	1s 12kW	1min 10kW	PRODUCT DIMENSIONS (H×W×D)	29.5×20.5×11.2 in (750×520×285mm)	
OPERATING FREQUENCY	50/60Hz			UNIT WEIGHT	110 lbs. (50kg)	
THD (V) @FULL LOAD	<3%			DESIGN TOPOLOGY	HIGH FREQUENCY TRANSFORMERLESS	
TRANSFER TIME	SINGLE 20ms-DEFAULT, 10 ms-SELECTABLE		PARALLEL 20ms	RELATIVE HUMIDITY	0-100%	
PV INPUT DATA					OPERATING ALTITUDE	<2000m (<6561ft)
NUMBER OF MPPTS	2			OPERATING AMBIENT TEMPERATURE RANGE	-13°F to 140°F (-25°C to 60°C)	
INPUTS PER MPPT	2			STORAGE AMBIENT TEMPERATURE RANGE	-13°F to 140°F (-25°C to 60°C)	
MAX. USABLE INPUT CURRENT	25/25A			NOISE EMISSION (TYPICAL)	<50 dB @ 3ft	
MAX. SHORT CIRCUIT INPUT CURRENT	31/31A			COMMUNICATION INTERFACE	RS485/WI-FI/CAN	
DC INPUT VOLTAGE RANGE	100-600 VDC			STANDARD WARRANTY	10-year standard warranty*	
UNIT STARTUP VOLTAGE	100 VDC			INGRESS PROTECTION RATING	IP65	
MPPT OPERATING VOLTAGE RANGE	120-500 VDC			STANDARDS AND CERTIFICATIONS		
NOMINAL MPP VOLTAGE	360 VDC			UL1741 SB		
MAXIMUM UTILIZED SOLAR POWER	12000W			CSA C22.2#107.1:2016		
RECOMMENDED MAXIMUM SOLAR INPUT	15000W			CSA C22.2#330:2017 ED 1		
*SEE EG4 WARRANTY REGISTRATION FOR TERMS AND CONDITIONS					HECO SRD-IEEE-1547.1:2020 ED 2	
					RAPID SHUT DOWN (RSD) NEC 2020:690.12	
					FCC PART 15, CLASS B	
					SAFETY FEATURES	
					PV ARC FAULT PROTECTION, PV GROUND FAULT PROTECTION, PV REVERSE POLARITY PROTECTION, POLE SENSITIVE LEAKAGE CURRENT MONITORING UNIT, SURGE PROTECTION DEVICE, INTEGRATED PV DISCONNECT	

18KPV-12LV ALL-IN-ONE HYBRID INVERTER



The EG4 18kPV hybrid inverter integrates solar, battery, and grid power in one unit. The 18kPV allows you to track and manage your energy production and consumption from anywhere.

- Up to 10 units can be paralleled
- Features remote monitoring and programming capabilities
- MPPTs rated to 18kW; accepts maximum 21kW array
- Powers up to 12kW of loads and uses the rest to charge your batteries
- Can be utilized for partial or whole home backup
- Capable of AC coupling to existing system



AC INPUT DATA	
NOMINAL AC VOLTAGE	240 208VAC
FREQUENCY	50/60HZ
MAX. CONT. AC CURRENT	50A
AC GRID OUTPUT DATA	
MAX. CONT. OUTPUT CURRENT	50A
AC BYPASS (GRID)	200A
RATED VOLTAGE	240VAC
NOMINAL POWER OUTPUT	@240V 12KW/@208V 10.4KW
OPERATING FREQUENCY	50/60HZ
POWER FACTOR	0.99@ FULL LOAD
SYNC INRUSH CURRENT	35A
BACKUP/UPS AC OUTPUT DATA	
RATED OUTPUT CURRENT (240V/208V)	50A
AC BYPASS (GENERATOR)	90A
NOMINAL OUTPUT VOLTAGE	240 120/240 120/208 VAC
RATED OUTPUT POWER	@240VAC 12KW/@208VAC 10.4KW
MAX CONT. LINE WATTAGE	8KW per 120V
PEAK POWER (W)	WITH PV: 14.7KW (10 MIN), 15.5KW (5 MIN) WITHOUT PV: 13.5KW (10 MIN)
OPERATING FREQUENCY	50/60HZ
SWITCHING TIME	<20 MS
PV INPUT DATA	
NUMBER OF MPPTS	3
INPUTS PER MPPT	2/1/1
MAX. USABLE INPUT CURRENT	25/15/15A
MAX. SHORT CIR. INPUT CURRENT	31/19/19A
DC INPUT VOLTAGE RANGE	100-600 VDC
NOMINAL MPPT VOLTAGE	360 VDC
MAXIMUM UTILIZED SOLAR POWER	18KW
RECOMMENDED MAX. SOLAR INPUT	21KW
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
GENERAL DATA	
INTEGRATED DISCONNECT	DC SWITCH
PV REVERSE POLARITY PROTECTION	YES
DC SWITCH RATING FOR EACH MPPT	YES
OUTPUT OVER-VOLTAGE PROTECTION VARISTOR/OVER CURRENT	YES
GRID MONITORING	YES
ANTI-ISLANDING PROTECTION	YES
POLE SENSITIVE LEAKAGE CURRENT MONITORING UNIT	YES
SURGE PROTECTION DEVICE	YES
DIMENSIONS H x W x D	34.3x20.5x11.2 IN. (87x52x28.5 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 TEMP. RANGE	-25~60°C, >45° DER- ATING
NOISE EMISSION	68DB @3FT
DISPLAY	COLOR TOUCHSCREEN
COMMUNICATION INTERFACE	RS485/WI-FI/CAN
STANDARD WARRANTY	10* YEAR STANDARD WARRANTY
STANDARDS AND CERTIFICATIONS	
SAFETY	
UL1741SB RULE 21	YES
RAPID SHUT DOWN (RSD) NEC 2020:690.12	YES
ARC-FAULT CIRCUIT INTERRUPTER (AFCI) NEC 2020:690.11 / UL16699B	YES
GROUND FAULT MONITORING (GFD) NEC 2020:690.4(B)	YES
CSA 22.2.107.1/CSA 22.2.330	YES
GRID CONNECTION	
IEEE1547.1:2020:IEEE 1547:2018/HA- WAII RULE 14H/CALIFORNIA RULE 21 PHASE I, II, III	YES
EMC	
FCC PART 15 CLASS B	YES
OUTDOOR RATING	
NEMA 4X / IP65	YES

6000XP ALL-IN-ONE INVERTER



The EG4 6000XP inverter is ideal for those who want to power loads off-grid in remote locations.

- Utilizes 8kW of PV and outputs 6kW of power while charging your battery bank
- Can also power loads or charge your batteries from the grid when it is available
- 48V split-phase off-grid inverter/charger
- 2 MPPTs boast 99 percent efficiency
- Parallel up to 16 units for max of 96kW of continuous AC power
- Can be controlled using EG4 monitoring software



AC INPUT DATA		15% SOC (Grid ON) (Configurable)
NOMINAL AC VOLTAGE 120/240VAC (L1/L2/N required)	120/240VAC (L1/L2/N required)	15% SOC (Grid OFF) (Configurable)
FREQUENCY	50/60Hz	
MAX. CONTINUOUS AC CURRENT	37.5A @ 240VAC	
MAX. AC INPUT POWER	9000W	
AC BYPASS (GRID GENERATOR)	50A	
AC OUTPUT DATA		
OUTPUT VOLTAGE	120/240VAC	
OUTPUT FREQUENCY	50/60Hz	
MAX. CONTINUOUS OUTPUT CURRENT @ 240V	25A (per line)	
MAX CONT. LINE WATTAGE	3000W	
NOMINAL POWER OUTPUT	6000W	
SURGE CAPACITY	12,000W for ≈3.5 seconds 11,000W for ≈5 seconds	
POWER FACTOR	0.99 @ full load	
REACTIVE POWER ADJUST RANGE	(-0.8) – (+0.8) leading adjustable	
OPERATING FREQUENCY	50/60Hz	
THD (V)	<3%	
SWITCHING TIME	<15ms @ Single / <30ms @ Parallel	
PV INPUT DATA		
NUMBER OF MPPTS	2	
INPUTS PER MPPT	1	
MAX. USABLE INPUT CURRENT	17/17A	
MAX. SHORT CIRCUIT INPUT CURRENT	25/25A	
DC INPUT VOLTAGE RANGE	100-480 VDC	
UNIT STARTUP VOLTAGE	100 VDC ± 10 VDC	
MPP OPERATING VOLTAGE RANGE	120-385 VDC	
NOMINAL MPPT VOLTAGE	320 VDC	
MAXIMUM UTILIZED SOLAR POWER	8000W (4000W per MPPT)	
RECOMMENDED MAXIMUM SOLAR INPUT	10000W	
BATTERY DATA		
TYPE	Lead-acid/Lithium	
MAX. DISCHARGE CURRENT	140A	
MAX. CHARGE CURRENT	125A**	
NOMINAL VOLTAGE	48 VDC	
BATTERY VOLTAGE RANGE	46.4 – 60 VDC (Lithium) 38.4 – 60 VDC (Lead-acid)	
REC. BATTERY CAPACITY PER INVERTER	>200Ah	
HIGH DC CUT-OFF VOLTAGE	59 VDC (Lithium) 60 VDC (Lead-acid)	
HIGH DC RECOVERY VOLTAGE	57.4 VDC(Lithium) 58 VDC(Lead-Acid)	
	LOAD<20%	44.0 VDC (Configurable)
LOW DC WARNING VOLTAGE (LEAD-ACID)	20%≤LOAD<50%	Warning Voltage @Load <20% - 1.2V - 3.6V
	LOAD≈50%	Warning Voltage @Load <20% - 3.6V
LOW DC WARNING VOLTAGE RETURN (LEAD-ACID)		Low DC Warning Voltage @ Different Load +2V
	LOAD<20%	42.0 VDC (Configurable)
LOW DC CUT-OFF VOLTAGE (LEAD-ACID)	20%≤LOAD<50%	Cut-Off Voltage @Load <20% - 1.2V
	LOAD≈50%	Cut-Off Voltage @load <20% - 3.6V
LOW DC CUT-OFF RETURN VOLTAGE (LEAD-ACID)	CUT-OFF VOLTAGE @LOAD <20% ≈45V	Low DC Cut-Off Voltage @load <20% +3V
	CUT-OFF VOLTAGE @LOAD <20% <45V	48V
LOW DC CUT-OFF SOC		15% SOC (Grid ON) (Configurable)
LOW DC CUT-OFF RETURN SOC		Low DC Cut-Off SOC +10%
CHARGE CUT-OFF VOLTAGE	58.4 VDC	
GENERAL DATA		
MAX. UNITS IN PARALLEL	16	
INTEGRATED DISCONNECT	Yes	
DC SWITCH RATING FOR EACH MPPT	Yes	
DIMENSIONS	18×25.5×5.25 in (457×648×132mm)	
WEIGHT	52.9 lbs. (24kg)	
COOLING CONCEPT	Fan	
TOPOLOGY	TL (Transformerless)	
RELATIVE HUMIDITY	5-95%	
ALTITUDE	<6561ft (2000m)	
OPERATING TEMPERATURE RANGE	32 – 113°F (0 – 45°C)	
STORAGE TEMPERATURE RANGE	5 – 140°F (-15 – 60°C)	
NOISE EMISSION (TYPICAL)	<58 dB	
DISPLAY	LCD + LED	
COMMUNICATION INTERFACE	RS485/Wi-Fi/CAN	
STANDARD WARRANTY	5-year standard warranty***	
PV REVERSE POLARITY PROTECTION, POLE SENSITIVE LEAKAGE CURRENT MONITORING UNIT, SURGE PROTECTION DEVICE, OUTPUT OVER-VOLTAGE PROTECTION, OUTPUT OVER-VOLTAGE PROTECTION VARISTOR	Yes	
EFFICIENCY		
MPPT	99%	
BATTERY CHARGING	93%	
BATTERY DISCHARGING	93%	
IDLE CONSUMPTION (STANDBY)	w/ PV (<30W) w/ Battery (-50W) w/ AC (<50W)*	
STANDARDS AND CERTIFICATIONS		
UL1741		
FCC PART 15, CLASS B		
INGRESS PROTECTION RATING		
IP20		
*Idle consumption value tested with constant 300 VDC PV source		
**115A @ 48 VDC (AC), 125A @48 VDC (PV)		
***See EG4 Warranty Registration for terms and conditions		

12000XP ALL-IN-ONE INVERTER



The EG4 12000XP is a powerful all-in-one off-grid inverter that delivers exceptional performance for whole-home backup and off-grid living.

- 24kW of solar input through dual 35A MPPT controllers
- Outputs 12kW of continuous power at 120/240V split-phase
- Can handle up to 100A grid input or 90A generator input
- Programmable Smart Port for AC coupling or load control
- Parallel up to 6 units for a total of 72kW output
- Starts 5-ton AC units without requiring a soft start



AC INPUT DATA	
NOMINAL AC VOLTAGE (GRID GENERATOR)	120/240VAC; 120/208VAC (L1/L2/N required)
FREQUENCY (GRID GENERATOR)	60 Hz (Default) 50 Hz (Configurable)
GRID MAX. CONTINUOUS AC CURRENT	100A @ 240VAC
MAX. AC INPUT POWER	24000W
AC BYPASS (GRID GENERATOR)	100A 90A

AC OUTPUT DATA	
OUTPUT VOLTAGE	120/240VAC; 208VAC
OUTPUT FREQUENCY	60 Hz (Default) 50 Hz (Configurable)
MAX. CONTINUOUS OUTPUT CURRENT	50A @ 240VAC 57.7A @ 208V
NOMINAL POWER OUTPUT	w/ PV: 12000W @240V 12000W @ 208V w/ out PV: 12000W @240V 12000W 208V
MAX. CONTINUOUS WATTAGE	12000W (L1-L2) 6000W (L1-N or L2-N)
PEAK POWER (SURGE CAPACITY)	18000W for $\approx$ 5s 15000W for $\approx$ 10s
POWER FACTOR VALUE	.99
THD (V)	<3%
SWITCHING TIME	<10 ms @ Single / <20 ms @ Parallel

PV INPUT DATA	
NUMBER OF MPPTS	2
INPUTS PER MPPT	2/2
MAX. USABLE INPUT CURRENT	35A/35A
MAX. SHORT CIRCUIT INPUT CURRENT	44A/44A
DC INPUT VOLTAGE RANGE	100-480 VDC
MIN. STARTUP VOLTAGE	100 VDC
MPPT OPERATING VOLTAGE RANGE	120-385 VDC
NOMINAL MPPT VOLTAGE	320 VDC
MAX. UTILIZED SOLAR POWER	24000W (12000 per MPPT)
MAX. RECOMMENDED SOLAR INPUT	28000W (14000 per MPPT)

EFFICIENCY	
MAX. EFFICIENCY (MPPT)	99%
MAX. EFFICIENCY (PV TO BATTERY)	92.8%
MAX. EFFICIENCY (AC TO BATTERY)	92.5%
MAX. EFFICIENCY (PV TO LOADS)	93.5%
MAX. EFFICIENCY (BATTERY TO LOADS)	90.2%
IDLE CONSUMPTION (STANDBY MODE)*	<70W

BATTERY DATA	
COMPATIBLE TYPES	Lead-Acid/Lithium
MAX. CHARGE/ DISCHARGE CURRENT (A)	250A
MAX. CHARGE/ DISCHARGE POWER (W)	12000W
NOMINAL VOLTAGE	48 VDC
BATTERY VOLTAGE RANGE	46.4 - 60 VDC (Lithium) 60 VDC (Lead-acid)
RECOMMENDED BATTERY CAPACITY PER INVERTER	>400Ah
HIGH DC CUT-OFF VOLTAGE	59 VDC (Lithium) 60 VDC (Lead-acid)

GENERAL DATA	
MAX. UNITS IN PARALLEL	6
PRODUCT DIMENSIONS (HxWxD)	34.25x20.87x5.91 in. (870x530x150 mm)
WEIGHT	104.7 lbs. (47.5kg)
DESIGN TOPOLOGY	High Frequency - Transformerless
RELATIVE HUMIDITY	5 - 95% (non-condensing)
OPERATING ALTITUDE	<6561 ft. (<2000 m)
OPERATING AMBIENT TEMPERATURE RANGE	32°F - 113°F (0°C - 45°C @ Full Load)
STORAGE TEMPERATURE RANGE	5 - 140°F (-15 - 60°C)
NOISE EMISSION (TYPICAL)	<60 dB
COOLING METHOD	Fan
COMMUNICATION INTERFACE	RS485/Wi-Fi/CAN
STANDARD WARRANTY	5-year standard warranty***
INGRESS PROTECTION RATING	IP20
SAFETY FEATURES	PV Reverse Polarity Protection, Surge

STANDARDS AND CERTIFICATIONS

UL1741

*Idle consumption value tested with constant 300 VDC PV source
 ***See EG4 Warranty Registration for terms and conditions

WALLMOUNT INDOOR 280AH BATTERY



Our WallMount Indoor batteries have an exceptional 14.3 kWh storage capacity.

- Perfect partner to EG4 18kPV & FlexBOSS21
- Deliver peak power at 10.2kW continuously and 15.4kW for 3 seconds
- Integrated 600A busbars
- Dual on-board fire arrestors
- E-Stop capable



MODULE OPERATING PARAMETERS			
PARAMETER	BMS		RECOMMENDED SETTING
VOLTAGE	51.2V		-
CAPACITY	280AH		-
CHARGING VOLTAGE (BULK/ABSORB)	56.0V (+/-0.8V)		56.2V (+/-0.2V)
FLOAT	-		54V (+/-0.2V)
LOW DC CUTOFF	44.8V		47-45.6V (START HIGH, LOWER AS NEEDED)
CHARGING CURRENT	200A		60A - 160A
DISCHARGING CURRENT	200A (MAX. CONTINUOUS)		160A
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		
CHARGING/ DISCHARGING 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			
CELL VOLTAGE PROTECTION	2.3V	1 SEC	3.1V
MODULE VOLTAGE PROTECTION	44.8V	1 SEC	48V
OVER-CHARGING CURRENT 1	>205A	10 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	SPEC		CONDITION
CELL BALANCE	120mA	PASSIVE BALANCE	CELL VOLTAGE DIFFERENCE >40mV
TEMPERATURE ACCURACY	3%	CYCLE MEASUREMENT	MEASURING RANGE -40°F TO ≈212°F (-40°C TO ≈100°C)
VOLTAGE ACCURACY	0.5%	CYCLE MEASUREMENT	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 SPECIFICATIONS			
PARAMETER	SPEC		CONDITION
VOLTAGE	56V		-
POWER CONSUMPTION	224W		-
INTERNAL BATTERY TEMPERATURE	≈32°F (0°C)/≈41°F (5°C)		HEAT ON/HEAT OFF
PHYSICAL SPECIFICATIONS			
DIMENSIONS (H×W×D)	36.4 IN.×18.1 IN.×9.6 IN. (92.5 CM×46 CM×24.5 CM)		
WEIGHT	282 LBS. (128 KG)		
DESIGN LIFE	>15 YEARS		
CYCLE LIFE	>8000 CYCLES, 0.5C 80% DOD		
LIFETIME PRODUCTION	82.6MWh*		

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

WALLMOUNT ALL WEATHER 280AH BATTERY



All Weather batteries' self-heating feature makes them ideal for low-voltage residential outdoor energy storage system (ESS) applications.

- Perfect partner to EG4 18kPV & FlexBOSS21
- Come with battery cables featuring outdoor rated connectors
- Integrated 600A busbars
- Dual on-board fire arrestors
- E-Stop capable



MODULE OPERATING PARAMETERS			
PARAMETER		BMS	RECOMMENDED CHARGER SETTINGS
Total Energy Capacity		14.3kWh @25C, 100% SOC	
Voltage		51.2V	
Capacity		280Ah ±2% @25°C ±2°C @ 0.5C	
Charging Voltage (Bulk/Absorb)		56.0V (±0.8V) 56.2V (±0.2V)	
Float		- 54V (±0.2V)	
Low DC Cutoff		44.8V 47-45.6V (start higher, lower as needed)	
Charge Current		200A 60 - 160A Max. Continuous	
Discharge Current		200A Max. Continuous 160A	
ENVIRONMENTAL FACTORS			
Charging Range		32°F 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		IP65	
CHARGING/DISCHARGING PARAMETERS			
CHARGE	SPEC	DELAY	RECOVERY
Cell Voltage Protection	3.8V	1 sec	3.45V
Module Voltage Protection	60V	1 sec	55.2V
Charge Over-Current 1	>205A	10 sec	-
Charge Over-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
Discharge Over-Current 1	>205A	10 sec	60 sec
Discharge Over-Current 2	>300A	3 sec	60 sec
Short Circuit	2000A	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 Temperature Protection	>230°F (>110°C)	1 sec	@ <176°F (<80°C)
GENERAL SPECIFICATIONS			
PARAMETER	SPEC		CONDITION
Cell Balance	120mA	Passive Balance	Cell Voltage Difference >40mV
Temperature Accuracy	3%	Cycle Measurement	Measure Range: -40°F - ≈212°F (-40°C - ≈100°C)
Voltage Accuracy	0.5%	Cycle Measurement	Cells & Module
Current Accuracy	3%	Cycle Measurement	Measure Range: -200 - 200A
SOC	5%		Integral Calculation
Power Consumption (Standby)	<300uA		Standby/Storage
Power Consumption (Operating)	<25mA		Charging/Discharging
Communication Ports	RS485/CAN		Customizable
BATTERY HEATER SPECIFICATIONS			
PARAMETER	SPEC		CONDITION
Voltage	56V		-
Power Consumption	224W		-
Internal Battery Temperature	≤32°F (0°C) or ≥41°F (5°C)		Heat On/Heat Off
PHYSICAL SPECIFICATIONS			
Dimensions (H × W × D)		34.6 × 22.3 × 9.1 in. (88 × 56.6 × 23.2cm)	
Weight		308.6 lbs. (140 kg)	
Design Life		>15 years	
Cycle Life		>8000 Cycles @ 0.5C 80% DOD	
Lifetime Production		82.6MWh	

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

BATTERY RACKS



The EG4 Welded 3-Slot and 6-Slot Indoor Battery Cabinets come fully assembled and ready to use with bolt-on casters.

- Cabinet door swings open, making it easy to access equipment and cables
- Door locks securely
- Compatible with all EG4 server rack batteries
- Integrated busbars support up to 300A DC (3-Slot) or 600A DC (6-slot)
- Multiple cable entry/exit knockouts



6 SLOT	
PHYSICAL SPECIFICATIONS	
DIMENSIONS OF THE CABINET (W×D×H)	23.6 × 26.8 × 46.3 in. (59.9 × 68.1 × 117.6 cm)
DIMENSIONS WITH CASTERS (W×D×H)	23.6 × 26.8 × 49.4 in. (59.9 × 68.1 × 125.5 cm)
TOP CABLE EXIT POINT DIAMETERS	1.9 in. (47.6 mm)
SIDE CABLE EXIT POINT DIAMETERS	2.4 in. (62 mm)
CABLE GLANDS SIZE	4 AWG
MAX. NUMBER OF BATTERIES	6 EG4 Server Rack Style
BATTERY CABLE BOLTS (IN BUSBAR)	(*) M6-1.0x15 with a 10mm hex head (and Phillips head)
SYSTEM CABLE BOLTS (IN BUSBAR)	(*) M8-1.25x15 with a 13mm hex head (and Phillips head)
BATTERY SECURING BOLTS	M5-0.8x10 with an 8mm hex head (and Phillips head)
BUSBAR TORQUE VALUE	60 in.-lbs. (7 Nm)
WEIGHT (INCLUDING CASTERS)	168.9 lbs. (76.6 kg)
CABINET MATERIAL	Heavy-duty Steel and Welded Joints
FINISH COLOR	Black: Powder-coated
SPECIFICATIONS	
MAX. BUSBAR CURRENT	600A
ENERGY STORAGE CAPACITY	5.12 – 30.72kWh
BUSBAR COVERS	Yes
BUSBAR HEAT SHRINK PROTECTION	Yes
WARRANTY	
STANDARD WARRANTY	3 years

(*) Always use the proper torque to fasten DC power cable connections. The M6 cable bolts should be torqued to 70 in.-lbs. (8 Nm) and the M8 cable bolts should be torqued to 150 in.-lbs. (17 Nm).

3 SLOT	
PHYSICAL SPECIFICATIONS	
DIMENSIONS OF THE CABINET (W×D×H)	23.6×26.8×26.5 in. (600×680×673.1 mm)
DIMENSIONS WITH CASTERS (W×D×H)	23.6×26.8×29.6 in. (600×680×751.8 mm)
TOP CABLE EXIT POINT DIAMETERS	1.6 in. (40.6 mm)
SIDE CABLE EXIT POINT DIAMETERS	2.5 in. (63.5 mm)
CABLE GLANDS SIZE	3/4 in.
MAX. NUMBER OF BATTERIES	3 EG4® Server Rack Style
BATTERY CABLE BOLTS (IN BUSBAR)	M6-1.0x15 with a 10mm hex head (and Phillips head)
SYSTEM CABLE BOLTS (IN BUSBAR)	M8-1.25x15 with a 13mm hex head (and Phillips head)
BUSBAR TORQUE VALUE	84 in. lbs. (9.5 Nm)
WEIGHT (INCLUDING CASTERS)	168.9 lbs. (76.6kg)
CABINET MATERIAL	Heavy-duty steel
FINISH COLOR	Black: Powder-coated
SPECIFICATIONS	
MAX. BUSBAR CURRENT	300A
ENERGY STORAGE CAPACITY	5.12 – 15.36kWh
BUSBAR COVERS	Yes
BUSBAR HEAT SHRINK PROTECTION	Yes
WARRANTY	
STANDARD WARRANTY	3 Years

24K HYBRID SOLAR MINI-SPLIT 24000BTU AC/DC AIR CONDITIONER/ HEAT PUMP



EG4 Mini Splits provide high-efficiency heating and cooling through advanced HVAC technology.

- Plug-N-Cool quick connect self-closing valves for easy DIY installation
- No need to hire an HVAC technician to pull a vacuum
- Cools and heats spaces more affordably than central AC systems
- Ideal for off-grid systems
- Solar AirCon app offers remote control, monitoring, and real-time data



ELECTRICAL (AC)	
RATED VOLTAGE	208VAC – 240VAC
RATED CURRENT COOLING	9.5A
RATED CURRENT HEATING	10.1A
RATED INPUT POWER	190W – 2250W
FREQUENCY	60Hz
MINIMUM CIRCUIT AMPACITY	16.33A
MAXIMUM BREAKER SIZE	20A
MAXIMUM STARTING CURRENT	6A
ELECTRICAL (DC)	
RATED VOLTAGE	90VDC – 380VDC
MAXIMUM PV VOLTAGE	380VDC
MAXIMUM PV AMPERAGE (ISC)	12A
RATED PV WATTAGE	2200W
RATED COOLING	
NOMINAL CAPACITY	24,000 BTU/h
OPERATING RANGE	6,100 – 25,200 BTU/h
EER	11.7 BTU/W
SEER2	21 BTU/W
RATED HEATING	
NOMINAL CAPACITY	26,000 BTU/h
OPERATING RANGE	6,100 – 26,000 BTU/h
HSPF2	9.6
SYSTEM DATA	
DESIGN PRESSURE (PSIG)	<651 PSI
REFRIGERANT	R410A/56.43 oz. (1.67L)
PRE-CHARGED REFRIGERANT LINE	16.4 ft. (5m)
CHARGE REQUIRED PER ADDITIONAL FT	0.2 oz. (6ml)
LIQUID VALVE DIAMETER	0.25 in. (6.35mm)
GAS VALVE DIAMETER	0.5 in. (12.7mm)
MAX REFRIGERANT PIPE LENGTH	82 ft. (25m)
MAX ELEVATION BETWEEN UNITS	32 ft.
COMPRESSOR SPECIFICATIONS	
TYPE	2 x Rotary
INPUT POWER	190 – 2,250W
RATED LOAD AMPERAGE (RLA)	6.72A
INDOOR UNIT DATA	
RATED LOAD AMPERAGE (RLA)	0.48A
SPEED (TURBO/5/4/3/2/1)	1300/1200/1100/1050/950/900 r/min
AIR FLOW (TURBO/5/4/3/2/1)	706/625/560/526/462/430 CFM
SOUND PRESSURE (TURBO/5/4/3/2/1)	50/48.5/45.5/43.5/41/39 dB(A)
MOISTURE REMOVAL	4.5 pt./hr. (2.1L/hr.)
UNIT DIMENSIONS (W×D×H)	42.5×9.3×13.0 in. (1080×236×330mm)
PACKAGING DIMENSIONS (W×D×H)	44.9×11.8×14.3 in. (1140×300×363mm)
UNIT/PACKAGED WEIGHT	33.1/38.6 lbs. (15.0/17.5kg)
OPERATING TEMPERATURE (COOLING)	61 – 90°F (16 – 32°C)
OPERATING TEMPERATURE (HEATING)	32 – 90°F (0 – 32°C)
OUTDOOR UNIT DATA	
RATED LOAD AMPERAGE (RLA)	0.81A
SPEED (HI/MED/LO)	850 r/min
AIR FLOW (HI/MED/LO)	1,940 CFM
SOUND PRESSURE (HI/MED/LO)	58 dB(A)
UNIT DIMENSIONS (W×D×H)	35.4×13.3×27.6 in. (802×323×564mm)
PACKAGING DIMENSIONS (W×D×H)	396×165×297 in. (910×405×622mm)
UNIT/PACKAGED WEIGHT	102.5/114.6 lbs. (46.5/52.0kg)
OPERATING TEMPERATURE (COOLING)	32 – 131°F (0 – 55°C)
OPERATING TEMPERATURE (HEATING)	5 – 86°F (-15 – 30°C)
ACCESSORIES	
CONTROL	Remote
SIGNAL CABLE	18 AWG (4 Stranded)
INSTALLATION LINE SET LENGTH	16.4 ft. (5m)
WARRANTY	
LIMITED WARRANTY	5-year limited warranty

MINI-SPLITS: CHOOSE THE PERFECT FIT FOR YOUR COMFORT



EG4 Mini-Splits offer various input types and efficiency ratings to suit different energy needs.

- AC units are quick to install and simple to use
- AC options work well in preexisting solar systems
- AC/DC models can run entirely on PV power during sunny days
- 9k-24k BTU mini split options can to cool/heat wide range of spaces



	24K HYBRID SOLAR MINI-SPLIT 24000BTU AC/DC AIR CONDITIONER/ HEAT PUMP	12K HYBRID SOLAR MINI-SPLIT 12000BTU AC/DC AIR CONDITIONER/ HEAT PUMP	12K MINI-SPLIT 12000BTU AIR CONDITIONER/ HEAT PUMP	9K MINI-SPLIT 9000BTU AIR CONDITIONER/ HEAT PUMP
TYPE	Hybrid - AC/DC Driven	Hybrid - AC/DC Driven	AC DRIVEN	AC DRIVEN
RATED BTU	2 TON / 24000	1 TON / 12000	1 TON / 12000	9000
COVERAGE	1,350 SQUARE FEET	650 SQUARE FEET	650 SQUARE FEET	500 SQUARE FEET
SEER2 RATING:	21	28.5	28.5	29.5
CAPACITIES	6,100-25,200 BTU/h	3,000-13,000 BTU/h	3,000-13,000 BTU/h	3,000-11,000 BTU/h
INDOOR UNIT SOUND	(TURBO/5/4/3/2/1 BLOCK) 50/48.5/45.5/ 43.5/41/39 dB(A)	(TURBO/5/4/3/2/1 BLOCK) 37/36/35/34/ 33/32 dB(A)	(TURBO/5/4/3/2/1 BLOCK) 37/36/35/34/ 33/32 dB(A)	(TURBO/5/4/3/2/1 BLOCK) 36/35/34/33/ 31/30 dB(A)
OUTDOOR UNIT SOUND	(HI/MED/LO) 58 dB(A)	(HI/MED/LO) 52 dB(A)	(HI/MED/LO) 52 dB(A)	(HI/MED/LO) 51 dB(A)
HSPF2	9.6	11.3A	11.3	10.7
COP	11.82 Btu/W	14.12 Btu/W	14.12 Btu/W	13.38 Btu/W
RECOMMENDED SOLAR INPUT	1600-2400W (90VDC- 380VDC)	1000-1600W (90VD- 380VDC)		
OPERATING TEM- PERATURE	(-10 to 58)	(-10 to 58)	(-10 to 58)	(-10 to 58)
OPERATION TEM- PERATURE INDOOR (COOLING/ HEATING)	61-90/32-90 °F	61-90/32-90 °F	61-90/32-90 °F	61-90/32-90 °F
OPERATION TEM- PERATURE OUT- DOOR (COOLING/HEATING)	32-131/5-86 °F	32-131/5-86 °F	32-131/5-86 °F	32-131/5-86 °F
WEIGHT	77.07 KG / 169.93 LBS	49.9 kg / 110.22 lbs	103.62kg / 118 lbs	103.62kg / 118 lbs
SOLAR AIRCON APP	YES	YES	YES	YES
ENERGY STAR®	YES	YES	YES	YES
5 YEARS LIMITED WARRANTY	YES	YES	YES	YES



POWER MORE

AT EG4 ELECTRONICS, WE BELIEVE OUR DISTRIBUTORS ARE THE BACKBONE OF OUR SUCCESS. WE VALUE THE PARTNERSHIPS WE HAVE BUILT AND ARE COMMITTED TO SUPPORTING THEIR GROWTH AND INNOVATION.

TO EXPLORE OUR FULL LIST OF TRUSTED DISTRIBUTORS AND DISCOVER HOW WE CAN WORK TOGETHER, SIMPLY SCAN THE QR CODE AND GET CONNECTED TODAY.





POWER MORE
POWER MORE
POWER MORE
POWER MORE
POWER MORE
POWER MORE
POWER MORE





FLEXBOSS 21



GRID BOSS



CHECK OUT OUR FULL
LIST OF PRODUCTS



POWER MORE
POWER MORE
POWER MORE
POWER MORE
POWER MORE
POWER MORE
POWER MORE

SALES@EG4ELECTRONICS.COM
SUPPORT@EG4ELECTRONICS.COM

1130 COMO STREET SOUTH
SULPHUR SPRINGS, TX 75482



Connect with us on Social Media