

EnviroLux High Lumen LED Generator Powered Work Lights



Project Information

Project Name:	Fixture Type:
Complete Catalog #:	Date:
Comments:	

The EnviroLux EES-KH45Q LED area site light flood luminaire combines optical performance, energy efficiency and long term reliability using a market proven contemporary design. Utilizing the latest LED technology, the EES-KH45 luminaire delivers unparalleled uniformity resulting in greater lumen output (up to 201 lumens per watt) with a CRI of 80. The EnviroLux high lumen Stealth Site Light is available in multiple wattages with a wide choice of mounting configurations and optical distributions to serve the needs of any temporary lighting application. Applications include general construction project areas, temporary parking events, security, and accent lighting applications.

SPECIFICATIONS AND FEATURES:

HOUSING:

Die Cast Aluminum Housing and Front Frame, Integral Heat Sinking and Driver Compartment. Photocell Adaptable. Nickel-Plated Stainless Steel Hardware.

LISTING & RATINGS:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750
IP66 Sealed LED Compartment.

FINISH:

Textured Architectural Bronze Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

LENS:

Tempered Clear Flat, SoftLED Flat Glass Lens, or Tempered Clear Flat Prismatic Glass Lens.

MOUNTING OPTIONS:

Mounts with Kitty Hawk Arm, Adjustable Slipfitter, 2 3/8" Diameter Mounting Arm Adapter, Yoke, Two-Piece Bracket or Wall Mount Bracket. (Factory Installed)

LED:

Aluminum Metal Core Boards with 2oz Copper Inlay

WATTAGES:

Multiple Wattages Available: 99w, 111w, 133w, 136w, 167w, 183w, 199w, 225w, 293w

DRIVER:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV. 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

CONTROLS:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with EnviroLux Controls and May Not Function Properly With Controls Supplied by Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

Generator Power:

Dual 110V Outlets. 1 Gallon capacity which allows for 7.5 hours of operation at full power. Extra quiet operation. AC-DC Circuit Protection. Carbon detection safety.

WARRANTY:

7-Year Warranty for -40°C to +50°C Environment.



Direct AC Power Bypass For Use Without Generator



NEW
EXPANDED WATTAGES
OPTIMIZED OPTICS



DesignLights Consortium™

Qualified Luminaires:

EESKH45QA1X[167 256][U

EESH]5KC***

EESKH45QB1X[167 256][U H]5KC***

EESKH45QC1X[167 256][U H]5KC***

EESKH45QD1X[167][U H]5KC***

EESKH45QF1X[167 256][U H]5KC***



EnviroLux High Lumen LED Generator Powered Work Lights



ENVIROLUX
ENERGY SYSTEMS

STANDARD MODELS:

Complete Units Ordering Information Example: **KEES-KH45QF1X256U5KCZSSFSP**

Model	Optics/Beams	Wattage	Driver	CCT	Lens	Color	Mounting	Options	
EES-KH45Q	A =Type I/NEMA 7H x 5V B =Type II/NEMA 7H x 6V C =Type III/NEMA 7H x 7V D =Type IV/NEMA 7H x 6V F =Type V/NEMA 7H x 7V I =Narrow Beam/NEMA 4H x 4V* *Use with 5K Model Only. See Page 5 for Distribution Information.	1X99 =99w 1X111 =111w 1X133 =133w OPTIMIZED 1X136 =136w* 1X167 =167w 1X183 =183w 1X199 =199w OPTIMIZED 1X225 =225w* 1X293 =293w *C, D & F Optics Only	U =120-277V H =347-480V	3K =3000K* 4K =4000K 5K =5000K *Only for C & F Optics. Not available in 136 & 225w. C =Standard Clear Flat Glass Lens S =SoftLED Flat Glass Lens* P =Clear Flat Prismatic Glass Lens* *Use with Type V Optic Only.	Z =Bronze C =Custom (Consult Factory) KH45A =Kitty Hawk Arm SSF =Slipfitter ALMAA = Mounting Arm Adapter KH45Y =Yoke SSB =Two-Piece Swivel Bracket WM =Wall Mount Bracket NM =No Mount SF =Single Fuse (120-277V Only) DF =Double Fuse (120-277V Only) SP =Surge Protection M1 =Motion Sensor, IR for mounting heights of 20ft to 35ft M2 =Motion Sensor, IR for mounting heights of 18ft or less R3 =3-Pin Twist Lock Photocell Receptacle R5 =5-Pin Twist Lock Photocell Receptacle R7 =7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle S23 =Internal Microwave Sensor with Dimming for mounting heights of 35' or less. (120-277V Only) S43 =Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', (120-277V Only)				

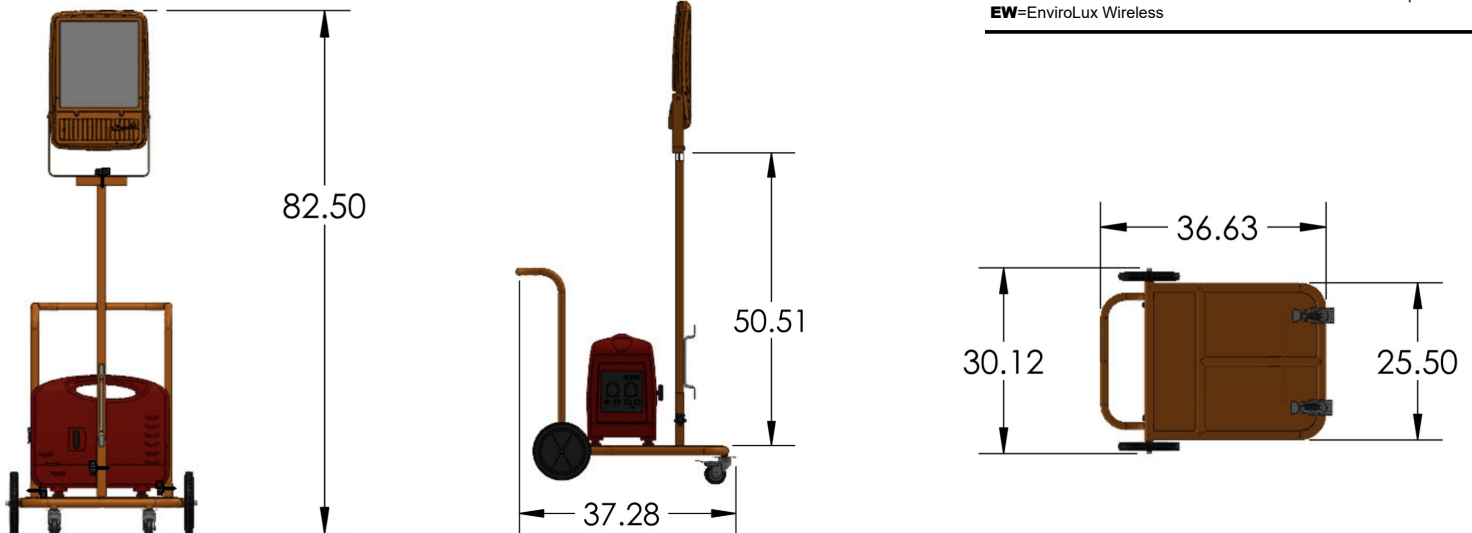
FRONT LINE MODELS:

Complete Units Ordering Information Example: **EES-KH45QF1X256U5KCZKARDSP**

EESKH45Q				5K	C			
Model	Optics/Beams	Wattage	Driver	CCT	Lens	Color	Mounting	Options
EESKH45Q	C =Type III D =Type IV See Page 5 for Distribution Information.	OPTIMIZED 1X225 =225w 1X293 =256w	U =120-277V H =347-480V	5K =5000K	C =Standard Clear Flat Glass Lens	Z =Bronze C =Custom (Consult Factory)		YOKE = Adjustable Yoke KARD =Stealth Arm, Optics Rotated Right KALD =Stealth Arm, Optics Rotated Left SFRD =Slipfitter, Optics Rotated Right Auto Dealership Mount SFLD =Slipfitter, Optics Rotated Left Auto Dealership Mount MARD =Mounting Arm Adapter, Optics Rotated Right MALD =Mounting Arm Adapter, Optics Rotated Left

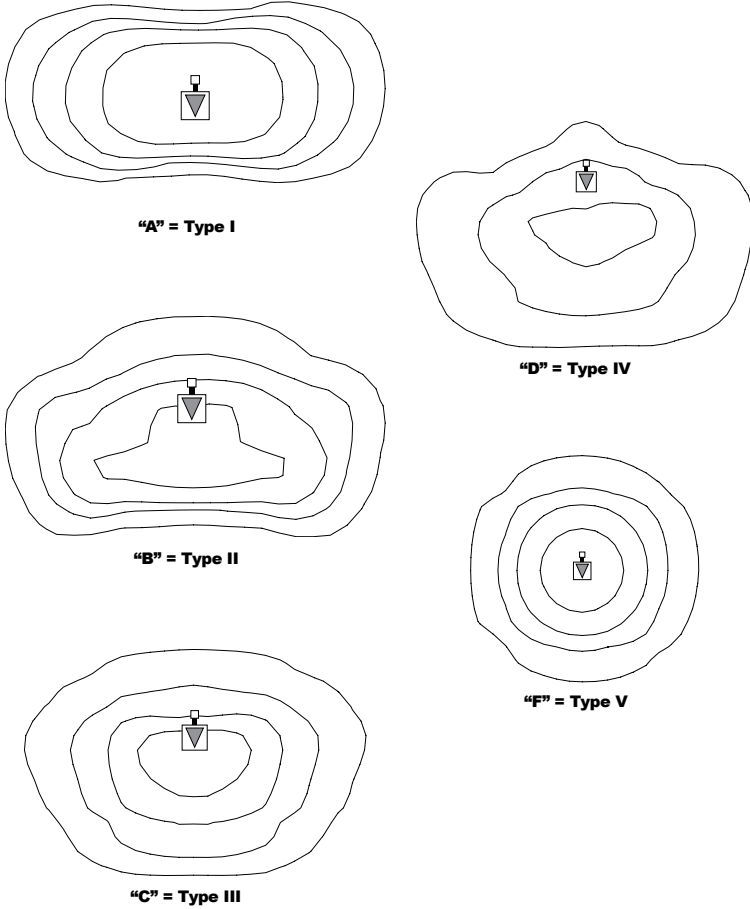
Dimensions:

SF=Single Fuse (120-277V Only)
DF=Double Fuse (120-277V Only)
SP=Surge Protection
R3=3-Pin Twist Lock Photocell Receptacle
R5=5-Pin Twist Lock Photocell Receptacle
R7=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle
EW=EnviroLux Wireless

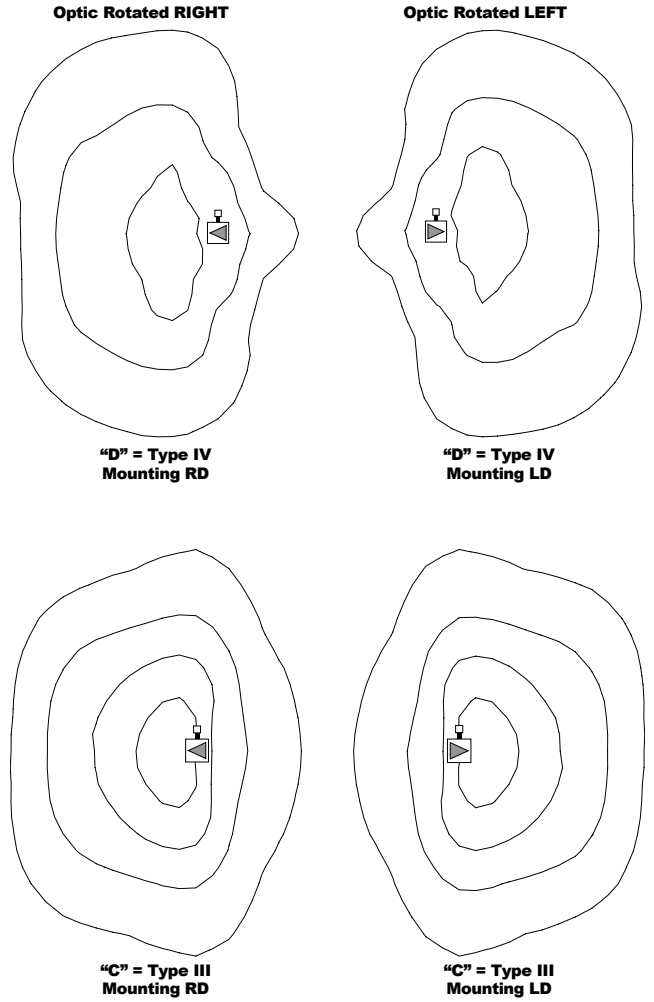


PHOTOMETRIC DATA

IES ROADWAY DISTRIBUTION OPTICS

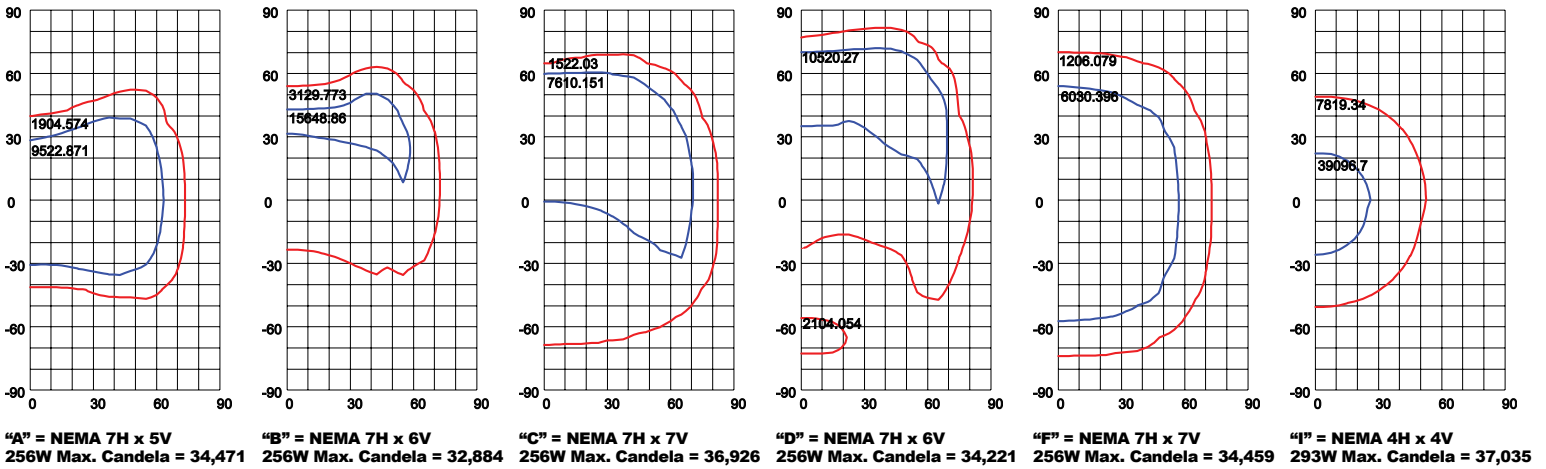


FRONT LINE ROTATED OPTICS
(FACTORY CONFIGURED MOUNTING OPTION)



AVAILABLE FOR Stealth ARM (KALD, KARD); MOUNTING ARM ADAPTER (MALD, MARD); AND SLIPFITTER (SFLD, SFRD).

NEMA FLOOD LIGHT DISTRIBUTION OPTICS



PHOTOMETRIC PERFORMANCE

		Optimized					Optimized			
"Wattage (Catalog Logic)"		99W (1X99)	111W (1X111)	133W (1X133)	136W (1X136)	167W (1X167)	183W (1X183)	199W (1X199)	225W (1X225)	293W (1X256)
Input Watts		104.8	116.5	139.5	148.1	178.8	193.7	210.6	241.1	298.2
Optic	CCT	Delivered Lumens								
A = Type I NEMA 7H x 5V (130"H x 70"V)	3000K	-	-	-	-	-	-	-	-	-
	4000K	18,052	17,072	23,364	-	29,726	32,574	35,442	-	49,546
	5000K	18,052	17,072	23,364	-	29,726	32,574	35,442	-	49,546
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G2	-	B4-U0-G3	B4-U0-G3	B4-U0-G3	-	B5-U0-G3
B = Type II NEMA 7H x 6V (110"H x 30"V)	3000K	-	-	-	-	-	-	-	-	-
	4000K	17,540	16,224	24,738	-	30,876	34,038	37,014	-	51,773
	5000K	12,540	16,224	24,738	-	30,876	34,038	37,014	-	51,773
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G2	-	B3-U0-G3	B3-U0-G3	B3-U0-G3	-	B3-U0-G3
C = Type III NEMA 7H x 7V (120"H x 70"V)	3000K	17,822	17,244	24,790	-	31,498	34,887	36,975	-	52,645
	4000K	18,044	17,752	25,802	26,384	32,204	35,502	38,606	41,467	53,999
	5000K	18,044	15,752	25,802	26,384	32,204	35,502	38,606	41,467	53,999
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
C-xRD or C-xLD = Type III, Auto Front Rotated RIGHT or LEFT	3000K	-	-	-	-	-	-	-	-	-
	4000K	-	-	-	-	-	-	-	-	-
	5000K	-	-	-	-	-	-	-	42,200	54,443
	BUG Rating	-	-	-	-	-	-	-	B5-U1-G5	B5-U1-G5
D = Type IV NEMA 7H x 6V (110"H x 50"V)	3000K	-	-	-	-	-	-	-	-	-
	4000K	17,857	19,420	25,270	25,840	31,540	34,770	37,810	40,251	52,886
	5000K	17,857	19,420	25,270	25,840	31,540	34,770	37,810	40,251	52,886
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
D-xRD or D-xLD = Type IV, Auto Front Rotated RIGHT or LEFT	3000K	-	-	-	-	-	-	-	-	-
	4000K	-	-	-	-	-	-	-	-	-
	5000K	-	-	-	-	-	-	-	39,980	51,537
	BUG Rating	-	-	-	-	-	-	-	B5-U1-G5	B5-U1-G5
F = Type V NEMA 7H x 7V (115"H x 110"V)	3000K	17,480	17,883	24,580	-	30,793	32,785	36,778	-	51,181
	4000K	17,557	18,423	25,004	25,568	31,208	34,404	37,412	40,185	52,329
	5000K	17,557	18,423	25,004	25,568	31,208	34,404	37,412	40,185	52,329
	BUG Rating	B3-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2
I = Narrow Beam NEMA 4H x 4V (30"H x 30"V)	3000K	-	-	-	-	-	-	-	-	-
	4000K	-	-	-	-	-	-	-	-	-
	5000K	18,057	20,246	19,238	-	32,204	36,051	39,203	-	54,834
	BUG Rating	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A

PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT	Compare to MH					
	TM-21-11	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
L70 Lumen Maintenance @ 25°C / 77°F		1.00	0.97	0.95	0.90	290,000
L70 Lumen Maintenance @ 50°C / 122°F		1.00	0.94	0.88	0.76	84,000
L80 Lumen Maintenance @ 40°C / 104°F		1.00	0.95	0.91	0.81	108,000

NOTES:

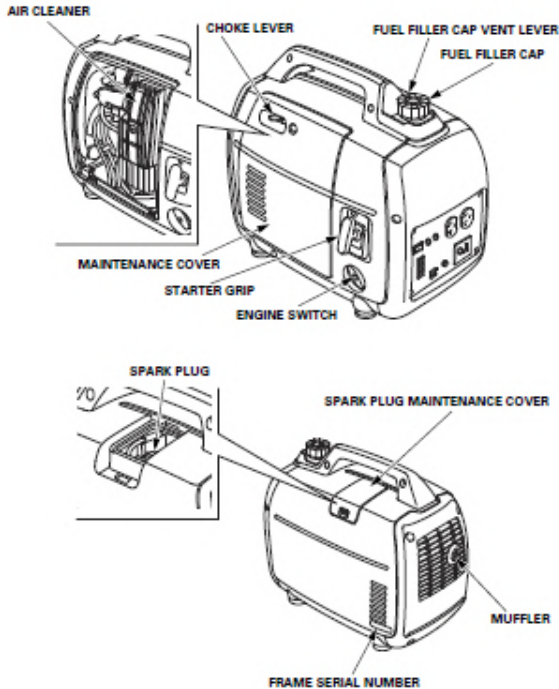
1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the 525mA base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.

Generator Controls and Features

CONTROLS & FEATURES

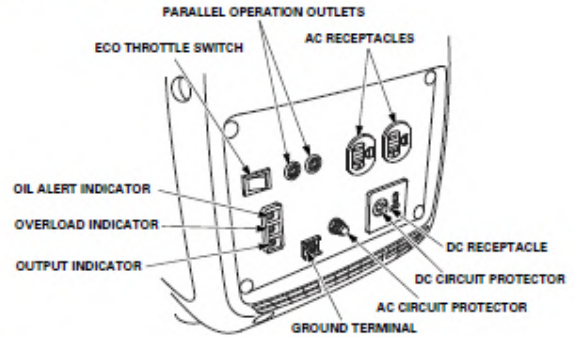
COMPONENT & CONTROL LOCATIONS

Use the illustrations on these pages to locate and identify the most frequently used controls.

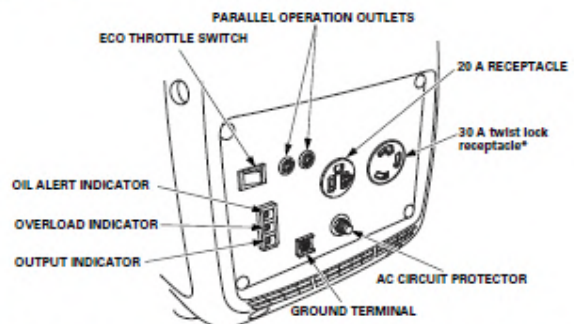


CONTROLS & FEATURES

[A, A2 types]



[A1 type]



*To obtain more than 1.8 kVA from the 30 A twist lock receptacle, you must have another EU2200i generator or EU2200i Companion generator connected in parallel (see page 33).

CONTROLS & FEATURES

CONTROLS

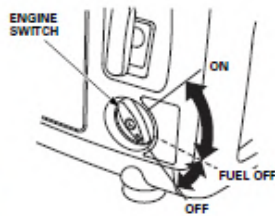
Engine Switch

The engine switch controls the ignition system and the fuel valve.

OFF – Stops the engine and closes the fuel valve.

FUEL OFF – Keeps the ignition system ON, and closes only the fuel valve. (see page 28)

ON – Running position; opens the fuel valve and allows the engine to be started.

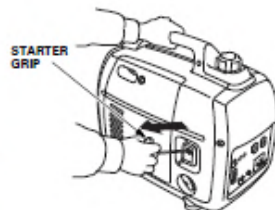


Starter Grip

Pulling the starter grip operates the recoil starter to start the engine.

NOTICE

Do not allow the starter grip to snap back against the generator. Return it gently to prevent damage to the starter.



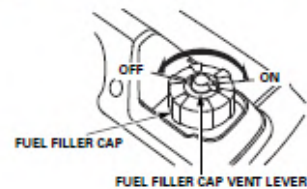
CONTROLS & FEATURES

Fuel Filler Cap Vent Lever

The fuel filler cap is provided with a vent lever to seal the fuel tank.

The vent lever must be in the ON position for the engine to run.

When the engine is not in use, leave the vent lever in the OFF position to reduce the possibility of fuel leakage. Allow the engine to cool well before turning the vent lever to the OFF position.



Choke Lever

The choke is used to provide proper starting mixture when the engine is cold. It can be opened and closed by operating the choke lever manually. Move the choke lever to the CLOSED position to enrich the mixture for cold starting.

