

600V DC Solar Photovoltaic Switches Type VBII, 100 Amp, Type 3R (Outdoor)

Standards and Ratings

- UL Listed and specifically designed and tested for use with three separate 600V DC circuits
- Specific catalog numbers are available for use with negative and for positive ground system
- Switches comply with UL98 requirements and are UL listed in file number E335018 as UL1741 Photovoltaic Disconnect switches
- Door labeling as required by Article 690 of the NEC supplied as standard
- Rated 10,000 AIC when protected by Class K, J or R fuses rated at 600V DC
- UL approved for field installation of optional copper body and crimp type terminals

Features

- Innovative magnetic arc suppression incorporated into the line base
- Quick-make and break switching action
- Double break visible blade design
- Highly visible ON/OFF indication
- Rugged installer friendly enclosure design
- Front removable line and load lugs which can easily be converted to copper body or compression type lugs
- Defeatable dual cover interlock
- Ground bar factory installed as standard
- Two and 3 point mounting provisions are standard
- Large wire gutters and oversized lugs allow for larger cables to minimize voltage drop on long cable runs

General Information

Catalog Number	Volts DC	Description	Shipping Weight (lbs.)	Rated Isc per NEC Article 690
Negative Ground				
HF363RPV	600	3 Pole, 3 Wire, Fusible	26	64.0A
HNF363RPV	600	3 Pole, 3 Wire, Non-Fusible	25	80.0A
Positive Ground				
HF363RPVPG	600	3 Pole, 3 Wire, Fusible	26	64.0A
HNF363RPVPG	600	3 Pole, 3 Wire, Non-Fusible	25	80.0A

Accessories

Catalog Number	Description
HA161234	One Normally Open and Closed Auxiliary Switches
HA261234	Two Normally Open and Closed Auxiliary Switches
HA361234	Low Voltage Auxiliary Switch
HG261234	Isolated Equipment Ground Lug Kit
HP63	100A Fuse Puller (3 per kit)
HN623	Neutral Kit
HR63	100A Class R Fuse Clip Kit (3 fuse clips per kit)
HLC63	Copper Lug Kit (9 lugs per kit)
HCL623	Compression Lug Neutral Barrier Kit
ECHS125	1.25" Type "HS" Outdoor Hub
ECHS150	1.50" Type "HS" Outdoor Hub
ECHS200	2.00" Type "HS" Outdoor Hub

Replacement Parts

Catalog Number	Description
HH6123	Replacement Handle/Handle Guard
HL63	Replacement Lugs (3 lugs per kit)
HM6123	Replacement Mechanism

Mechanical Lug Wire Ranges (75°C, Cu/Al)

Description	Wire Range
Line, Load	#12-1/0 (Al) AWG or
Neutral	#14-1/0 (Cu) AWG
Ground	#14-4 AWG

Product Specification Sheet HD100.13

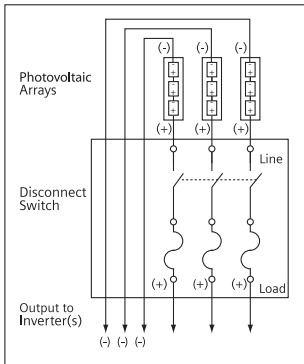
Product Specification Sheet #HD100.13 (page 2 of 2)

Compression Lugs

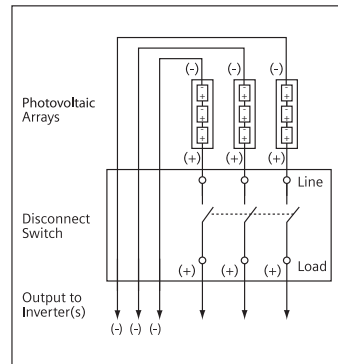
Wire Size	Burndy		Thomas-Betts		IlSCO	
	CU Only	CU/AL	CU Only	CU/AL	CU Only	CU/AL
#6	YA6C-L BOX	YA6CA1	54105	61107	CRB-6	ACL-6
	YA6C		54905BE	60107	CRB-6L	
#4	YA4C-L BOX	YA4CA1	54106	61112	CRB-4	ACL-4
	YA4C		54906BE	60112	CRB-4L	
#2	YA2C-L2 BOX	YA2CA5	54107	61116	CRB-2	ACL-2
	YA2C				CRB-2L	
#1	YA1C-L2		54108	61122	CRB-1-14	
	YA1C		54947BE		CRA-1L	
1/0				61130		

Wiring Diagrams

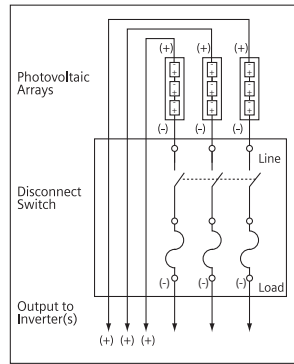
For negative ground PV systems
HF363RPV



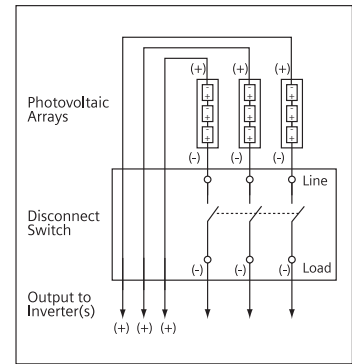
HNF363RPV



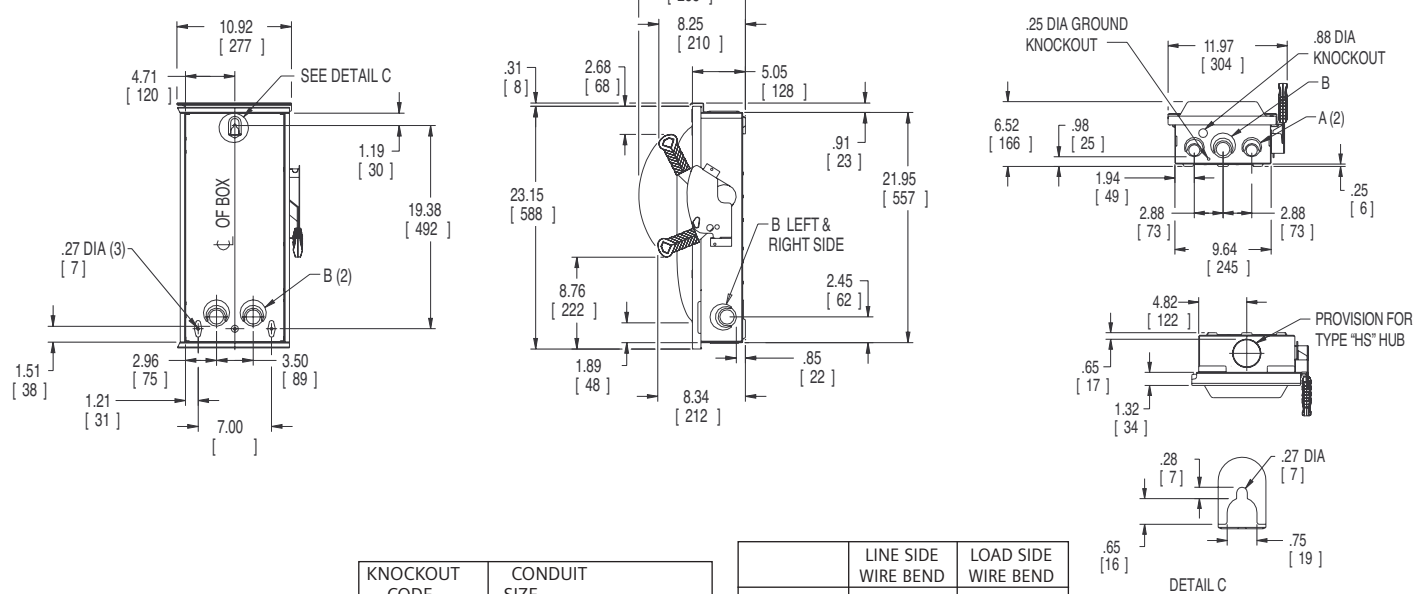
For positive ground PV systems
HF363RPVPG



HNF363RPVPG



Dimension Drawing



Dimensions shown in inches and millimeters ().
Dimension shown accurate to $\pm \frac{1}{8}$ inch.

KNOCKOUT CODE	CONDUIT SIZE			
A (Tangential)	.75	1.00	1.25	1.50
B (Tangential)	1.00	1.25	1.50	2.00

	LINE SIDE WIRE BEND	LOAD SIDE WIRE BEND
240V Fused	6.07 (154)	8.10 (205)
600V Fused	6.07 (154)	6.10 (155)
Non-Fused	6.07 (154)	11.46 (291)

Enclosure: Galvanized Steel
.054 Thick (17 Gauge)
Finish: ANSI Grey #61 Paint

Siemens Industry, Inc.
Building Technologies Division
5400 Triangle Parkway
Norcross, GA 30092
1-800-241-4453

Subject to change without prior notice.
All rights reserved.
Printed in USA
©2011 Siemens Industry, Inc.

Siemens is a registered trademark of Siemens AG.
Product names mentioned may be trademarks or registered trademarks of their respective companies.