

# HP6J

600V DC Class J Photovoltaic Fuses

SPECIAL PURPOSE

FOR ARRAY PROTECTION



Mersen's HP6J photovoltaic (PV) fuse series was engineered specifically for DC Recombiner Boxes in the protection of 600VDC photovoltaic systems. Its enhanced construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 600VDC rated HP6J designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value allows for safe circuit interruption under typical low fault current conditions produced by PV arrays. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's HelioProtection(r) fuse line.

## CATALOG NUMBERS (AMPS)

Frame Size 1		Frame Size 2		Frame Size 3		Frame Size 4
HP6J70	HP6J90	HP6J110	HP6J175	HP6J225	HP6J350	HP6J450
HP6J80	HP6J100	HP6J125	HP6J200	HP6J250	HP6J400	HP6J500
		HP6J150		HP6J300		HP6J600

## CATALOG NUMBERS - FUSE HOLDER

Box Terminal to Box Terminal Configuration, 1-Pole						
Ampere Rating	Clip Configuration	Wire Range	Wire Type	Stud Type	Catalog No.	Temperature Rating of Wire Terminal
100	In-line	2/0 - #6	Cu	-	61006HRJ	90° C
200	Side	350kcmil - #6	Al/Cu	-	62001HRJ	
400	In-line	{2} 350kcmil - #6		-	64031HRJ	
600	In-line	{2} 500kcmil - #4		-	6631HRJ	75° C

For additional configurations and information view Mersen's Solar Power Solutions Guide at <http://ep-us.mersen.com/solarpower>

## RATINGS:

- **Volts:** 600VDC
- **Amps:** 70 to 600A
- **IR:** 10kA I.R. DC
- **MBC:** 1.35 x In
- Photovoltaic Fuse

## FEATURES/BENEFITS:

- Smallest footprint in the industry
- UL class J dimensions
- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Industry's first UL Listed Solution
- Globally accepted

## APPLICATIONS:

- Re-combiner (sub-combiner, array combiner, master combiner) applications
- Inverter DC input protection
- Battery charge controllers

## APPROVALS:

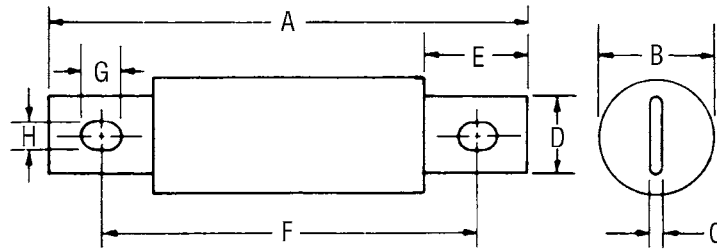
- UL Listed to Standard UL2579 File E333668
- CSA Component Certified C22.2



ELECTRICAL SPECIFICATIONS

Catalog Number	Ampere Rating (A)	Voltage (VDC)	Interrupting Rating (kA)	Watts Loss @ 80% x In (W)	Watts Loss @ 100% x In (W)
HP6J70	70	600	10	5.8	10
HP6J80	80	600	10	6.4	11
HP6J90	90	600	10	7.5	13
HP6J100	100	600	10	8.1	14
HP6J110	110	600	10	10.4	18
HP6J125	125	600	10	11	19
HP6J150	150	600	10	12.8	22
HP6J175	175	600	10	13.9	24
HP6J200	200	600	10	15.1	26
HP6J225	225	600	10	17.4	30
HP6J250	250	600	10	20.9	36
HP6J300	300	600	10	22	38
HP6J350	350	600	10	23.2	40
HP6J400	400	600	10	24.4	42
HP6J450	450	600	10	33.6	58
HP6J500	500	600	10	34.2	59
HP6J600	600	600	10	39.4	68

DIMENSIONS



Frame Size	Ampere Rating	A		B		C		D		E		F		G		H	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1	70-100	4-5/8	117	1-1/16	27	1/8	3.2	3/4	19	1	25	3-5/8	92	3/8	10	9/32	7
2	110-200	5-3/4	146	1-5/8	41	3/16	4.8	1-1/8	29	1-3/8	35	4-3/8	111	17/32	14	9/32	7
3	225-400	7-1/8	181	2-1/8	54	1/4	6.3	1-7/8	41	1-7/8	48	5-1/4	133	17/32	14	13/32	10
4	450-600	8	203	2-1/2	64	3/8	9.5	2	51	2-1/8	54	6	152	11/16	18	17/32	13