

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 | - | 61006HPJ | 90° C |
| 200 | Side | 350kcmil - #6 | Al/Cu | - | 62001HPJ | |
| 400 | In-line | (2) 350kcmil - #6 | | - | 64031HPJ | |
| 600 | In-line | (2) 500kcmil - #4 | | - | 6631HPJ | 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:

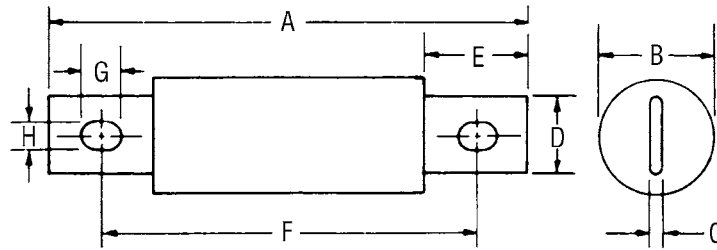
- UL Listed to Standard UL2579 File E333668
- CSA Component Certified C22.2



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 |