

# DPI 52L1587J23 - 230VAC INPUT 4.5KVA OUTPUT DIP PROOFING INVERTER



## AC INPUT

|                             |                |
|-----------------------------|----------------|
| Single Phase supply voltage | 230Vac 50/60Hz |
| Maximum input voltage       | +10%           |
| Full load current           | 20A            |

## STATIC SWITCH

|  |            |
|--|------------|
| Nominal off-state voltage                  | 230Vac RMS |
| Peak off-state voltage                     | 800V       |
| Nominal current(AV)                        | 20A        |
| Short time overload current(<100ms)        | 60A        |
| Non-repetitive peak on-state current(10ms) | 130A       |

## INVERTER

|  |   |
|--|---|
| Nominal output voltage                         | 230Vac RMS  |
| Voltage fluctuations over full operating range | -15% to +10%  |
| Nominal Load current                           | 20A   |
| Power factor range                             | cos $\Phi$ from 1 to 0                                      |
| Wave shape                                     | Stepped Square  |
| Nominal inductive load                         | 4.5KVA  |
| Storage capacitors(rated 200Vdc)               | 0.06F   |
| Usable stored energy factor ( $\eta$ )         | 0.47  |
| Minimum up time as a function of the load      | $t = (\eta * C_{cap} * V_{supply}) / (I_{load} * \cos\Phi)$ |
| Transistor peak current-limit                  | 50A   |
| Output frequency                               | 50/60Hz +/-1%   |
| HBC fuse rating                                | 32A   |

## TIMER

|  |             |
|--|-------------|
| Range  | 0.1 to 3.1s |
| Setting  | 0.1s steps  |
| Maximum recovery time of capacitors to 1,27Vin | <1.4 second |

## INDICATORS

|                  |           |
|------------------|-----------|
| System OK        | green LED |
| Inverter Running | red LED   |

## TEMPERATURE

|                                     |              |
|-------------------------------------|--------------|
| Maximum ambient working temperature | 45°C (113°F) |
|-------------------------------------|--------------|

## CUBICLE

|                         |                      |
|-------------------------|----------------------|
| Construction            | Extruded aluminum    |
| Height( Dim. L3 on P16) | 549mm (21.96in)      |
| Width                   | 311mm (12.24in)      |
| Depth                   | 162mm (6.38in)       |
| Mass                    | 15.70 kg (34.54 lbs) |

## CONNECTION

|                       |   |
|-----------------------|---|
| Cable                 | 5mm <sup>2</sup> (10 AWG) copper panel wire |
| Screw-terminal torque | 1.5 - 1.8 Nm (13.0-16.0 lb-in)              |

## LISTINGS

|                                |  |
|--------------------------------|--|
| Underwriters Laboratories Inc. | UL listed, Control #37WJ/File #E205817 |
|--------------------------------|--|

## Warning:

**Risk of electric shock! Dangerously high voltages can be present up to 20 minutes after DPI has been disconnected. NEVER attempt maintenance on the DPI during this period unless storage capacitors have been manually discharged.**