



## MATERIAL FACT SHEET

### 318073 FR-F846-02600-E2-60L2

#### General Data

|                      |  |
|----------------------|--|
| Price List Text (EN) | Inverter AC; Pn: 110kW; 3x380-500V;In max: 216A; IP55  |
| Price List Text (DE) | Umrichter AC; Pn: 110kW; 3x380-500V;In max: 216A; IP55 |
| Product Hierarchy    | IAK24500<br>INVERTER<br>FR-F846 IP55                   |
| Ext. Material Group  | 10 STANDARD ITEM                                       |
| ABC Indicator        | A (Available from Stock)                               |

e-shop: [https://mitsubishi-electric-eshop.mee.com/mee/FA\\_IA/EUR/en/p/000000000000318073](https://mitsubishi-electric-eshop.mee.com/mee/FA_IA/EUR/en/p/000000000000318073)

#### FA-Inverter: Inverter

|                               |                                |
|-------------------------------|--------------------------------|
| Series                        | FR-F800 SERIES                 |
| Type                          | FR-F846-E2 INVERTER            |
| Minimum Rated Voltage (V)     | 380                            |
| Min. Permissible Voltage (V)  | 323                            |
| Maximum Rated Voltage (V)     | 500                            |
| Max. Permissible Voltage (V)  | 550                            |
| Current Type                  | AC                             |
| Phases                        | 3                              |
| Rated Output Current LD (A)   | 216                            |
| Rated Motor Capacity LD (kW)  | 110                            |
| Frequency Range (Hz)          | 0,2-590                        |
| Control Method                | MAGNETIC FLUX VECTOR CONTROL   |
| Control Method (2)            | PM SENSORLESS VECTOR CONTROL   |
| Control Method (3)            | SOFT-PWM/HIGH FREQUENCY PWM    |
| Control Method (4)            | V/F CONTROL                    |
| Motor Type                    | INDUCTION MOTOR, PM MOTOR      |
| Integrated EMC Filter         | YES                            |
| Safe Torque Off (STO)         | YES                            |
| Regenerative (4Q)             | NO                             |
| Integrated DC Choke           | YES                            |
| Display                       | FR-DU08                        |
| Display Type                  | 5 DIGITS LED (12 SEGMENT)      |
| PLC Function                  | YES                            |
| Program Memory                | 6K                             |
| Program Memory Unit           | STEPS                          |
| Integrated Digital Inputs     | 12                             |
| Digital Outputs (Transistor)  | 5                              |
| Digital Outputs (Relay)       | 2                              |
| Integrated Analogue Inputs    | 3                              |
| Integrated Analogue Outputs   | 2                              |
| IO Type of Terminal Block     | SPRING CLAMP                   |
| Expandable                    | YES                            |
| USB                           | 1+1 MINI                       |
| Ethernet Port                 | 1                              |
| Built-In Network              | BACnet/IP                      |
| Built-In Network (2)          | CC-LINK IE FIELD NETWORK BASIC |
| Built-In Network (3)          | MELSOFT/FA                     |
| Built-In Network (4)          | MODBUS/TCP                     |
| Built-In Network (5)          | SLMP                           |
| Built-In Network (6)          | iQSS                           |
| Leakage Current (mA)          | 2                              |
| Power Loss SLD (W)            | 3150                           |
| Standby Power Consumption (W) | 46                             |
| Protection Class              | IP55                           |

### Product Dimensions & Weight

|             |       |
|-------------|-------|
| Width (mm)  | 420   |
| Height (mm) | 1360  |
| Depth (mm)  | 456,6 |
| Weight (kg) | 153   |

### Logistic Dimensions & Gross Weight

|                   |         |
|-------------------|---------|
| Length (cm)       | 150,0   |
| Width (cm)        | 55,0    |
| Height (cm)       | 67,0    |
| Gross Weight (kg) | 195,000 |
| Volume (cdm)      | 552,750 |

### Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 128 |
|------------------------------|-----|

### Life Cycle

|             |                |
|-------------|----------------|
| Sales Start | 01.03.2018     |
| Predecessor | No Predecessor |

### Export Data

|  |            |
|--|------------|
| Commodity Code                           | 85371091   |
| Legal Control (Dual Use List)            | Not Listed |
| Country of Origin                        | Japan (JP) |
| Preference Status (Supplier Declaration) | Non EU     |

### Environmental

|                                |                            |
|--------------------------------|----------------------------|
| REACH Limit Exceeded           | YES                        |
| REACH Substance CAS Number     | <a href="#">12626-81-2</a> |
| REACH Substance CAS Number (2) | <a href="#">127-19-5</a>   |
| REACH Substance CAS Number (3) | <a href="#">1317-36-8</a>  |
| REACH Substance CAS Number (4) | <a href="#">13560-89-9</a> |
| REACH Substance CAS Number (5) | <a href="#">15571-58-1</a> |
| REACH Substance CAS Number (6) | <a href="#">540-97-6</a>   |
| REACH Substance CAS Number (7) | <a href="#">541-02-6</a>   |
| REACH Substance CAS Number (8) | <a href="#">556-67-2</a>   |
| REACH Substance CAS Number (9) | <a href="#">7439-92-1</a>  |
| Dangerous Goods Class          | NO                         |
| Dangerous Goods Identifier     | NO                         |
| RoHS Compliance                | COMPLIANT                  |
| WEEE                           | B2B                        |

### Conformity

|        |           |
|--------|-----------|
| CE     | COMPLIANT |
| UL/cUL | COMPLIANT |
| EAC    | COMPLIANT |
| UKCA   | COMPLIANT |

### Documentation & Media Data

|                                |   |
|--------------------------------|---|
| Manual URL Indicator           | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2ff94&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en</a> |
| Certificates URL Indicator     | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en</a> |
| CAD URL Indicator              | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en</a> |
| Network configuration file URL | <a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blte8cf990c7c524b4e&amp;q=FR-F846-02600-E2-60L2&amp;doc-lang=en</a> |

### Product Packaging

|                   |       |
|-------------------|-------|
| Cardboard (g)     | 17500 |
| Other paper (g)   | 0     |
| Aluminum (g)      | 0     |
| Steel (g)         | 15    |
| Styrofoam (g)     | 0     |
| Other plastic (g) | 150   |
| Wood (g)          | 0     |
| Glass (g)         | 0     |
| Others (g)        | 0     |

**Spare parts**

| <b>Material</b>        | <b>Description</b>                       | <b>Quantity</b> | <b>Unit</b> |
|------------------------|--|-----------------|-------------|
| <a href="#">498581</a> | FR-F846-E2 PCB CPU                       | 1               | PC          |
| <a href="#">487412</a> | FR-A846-01800-03610-55K-132K PCB MA      | 1               | PC          |
| <a href="#">282925</a> | FR-A840-04320-2-60 PCB POWER             | 1               | PC          |
| <a href="#">283437</a> | FR-A840-02600-2-60 DM                    | 3               | PC          |
| <a href="#">498461</a> | FR-F846-00620-03610 FAN                  | 3               | PC          |
| <a href="#">283450</a> | FR-A840-00470-01800-2-60 FAN             | 2               | PC          |
| <a href="#">283444</a> | FR-A840-03250-12120-2-60 IGBT CM450DY207 | 3               | PC          |
| <a href="#">282932</a> | FR-A840/842/846-ALL TERMINAL BLOCK A80TA | 1               | PC          |
| <a href="#">282933</a> | FR-A840-00170-00250/A846-ALL CBL MA-CPU  | 1               | PC          |
| <a href="#">283473</a> | FR-A840-02600-2-60 DCCT                  | 3               | PC          |
| <a href="#">282942</a> | FR-A840-03250-12120 BALANCE RESISTOR     | 8               | PC          |
| 282943                 | FR-A842-07700-08660 / CC2 ALL THERMISTOR | 1               | PC          |
| <a href="#">283715</a> | FR-A846-2-60C2 ALL RJ45 ADAPTER 846ADP   | 1               | PC          |