



## FOR RESIDENTIAL & COMMERCIAL ROOFTOP SOLAR

### Single phase

FUSION 31 , FUSION 41 , FUSION 51

### Three phase

FUSION 53, FUSION 63, FUSION 83, FUSION 103  
FUSION 123, FUSION 153, FUSION 203, FUSION 253  
FUSION 503, FUSION 803, FUSION 1003



### Leading Features



#### Superior Efficiency

Maximum efficiency 98.3%  
Maximum String Current , compatible with 600W+ modules  
150% PV configuration, 110% output overload

#### High Reliability

Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti corrosion  
DC / AC surge protections.  
Compatible with wide power grid voltage and high harmonic power grid environment

#### Intelligent Maintenance

App quick commissioning  
Remote configuration and upgrade  
Supports export control

## Technical Specification

Output Power(kW)	3 KW	4 KW	5 KW	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	20 KW	25 KW	40 KW	50 KW	80 KW	100 KW
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### Input Side (DC)

Max. DC Input Power (kW)	3	4	5	5	6	8	10	12	15	20	25	40	50	80	100	
Max. MPPT I/P Current (A)	20A										26A		40A			
Max. Short Circuit Current (A)	23A		27A		30A						40A		60A			
MPPT Operating Voltage (V)	100-500V			120-850V				250-850V								
No. of MPPT Tracker	1		2								3		4		6	
Operating Phase	Single Phase			Three Phase												

### Output Side (AC)

Output Power (kW)	3	4	5	5	6	8	10	12	15	20	25	40	50	80	100
Operating Grid Voltage (V)	140V - 290V			320V - 480V											
Rated Grid Voltage (V)	230V			415V											
Nominal Grid freq. (Hz)	50Hz														
AC Connection (with PE)	L + N + E			3L + N + E											
THD(%)	< 3%														
Output Power Factor (%)	>99.99%														

### Efficiency

Max. Conversion eff. (%)	97.5%			98%											
Max. MPPT Efficiency (%)	>99%														

### Mechanical Data

Weight (Kg)	7		13		15				28			55		55		60		80	
Dimension (LXHXW) mm	330x348x127		330x348x179		385 x 479 x 184				455 x 573 x 265			700 x 684 x 307							

### General Data

Operating temperature	-25°to+65°C														
Display	Graphical - LED with LCD Display														
DC / AC Connectors (IP-65)	MC-4/ AC power connector														
Communication Interface	Wifi / GPRS / RS 485 / RS 232 / ETHERNET LAN														

### Warranty and Certifications

Standard Warranty	5 Years														
Certiificates	IEC Equivalent BIS Standard: IS 61683, IS 16221, IEC 60068, IEC 61000														

### Warranty Terms:-

- 1) 3 Earthing mandatory.
- 2) Neutral to Earth voltage 0-5volt.
- 3) Phase Imbalancing/ Hazard due to Grid is not covered under warranty.
- 4) Standard Warranty: Only if warranty is registered using QRCode.
- 5) Extended warranty is applicable only if customer opt for physical verification to verify warranty.



To log a complaint or register the warranty scan the QR-code.