



FUSION IP-66

THREE PHASE / ON-GRID / 12 KW

FEATURES:

- ▶ Maximum MPPT Current 20 A
- ▶ Compatible 800W+ Panels Per MPPT
- ▶ Max DC Support 15 KW
- ▶ Max Output Efficiency 98.8 %
- ▶ Built In AC & DC Protection Card/SPD
- ▶ IP66 Protection



AI SMART
SAFETY



DUAL MPPT



IP66
PROTECTION



1.3 DC RATIO



98.8%
EFFICIENCY



1100V DC INPUT



10-YEAR
REPLACEMENT
WARRANTY



Easy to Install

- Compact & lightweight design
- IP66 sealed body(indoor / outdoor)
- Wide MPPT voltage range upto 1100V
- Supports 800W+ high-power panels
- Plug-and-play WiFi / 4G option



Smart & Safe

- AI Auto Management System
- Built-in AFCI (arc fault protection)
- PID recovery for long-term panel health
- String fault monitoring
- AC & DC Type-II SPD protection



High Performance & Reliable

- 20A High-Current MPPT
- Max DC support 15kW
- Up to 98.8% efficiency
- Grid-compliant reactive power control
- 10-Year Replacement Warranty

MODEL	Fusion-15kVA/12KW		Fusion-15KW	Fusion-20KW
Input (DC)				
Recommended Max PV I/P Power	15.6KW		19.5KW	26KW
Max. DC Voltage			1100 V	
Nominal Voltage			650 V	
Start Voltage			250 V	
MPPT Voltage Range			140 - 1000 V	
MPPT Voltage Range(Full load)			420 - 850 V	
Number of MPPT			2	
Max.Number of String per MPPT	1		1	2
Max. Input Current per MPPT	20 A		20 A	32 A
Max. Short-circuit Current per MPPT	30 A		30 A	50 A
Output (AC)				
Nominal AC Output Power	12000 W		15000 W	20000 W
Max. AC Output apparent Power	13200 VA		16500 VA	22000 VA
Max. AC Output active Power	13200 W		16500 W	22000 W
Nominal Voltage	400 / 230 V, 3P+N+PE			
AC Grid Frequency Range	50Hz/60Hz			
Maximum Output Current	20 A		25 A	33.3 A
Power Factor (Φ)	0.8 leading - 0.8 lagging			
THDi	3%			
Efficiency				
Max. Efficiency	98.38%		98.39%	98.52%
Euro Efficiency	98.01%		98.01%	98.03%
Protection devices				
DC Switch	Yes			
Output Over Current Protection	Yes			
Anti-islanding Protection	Yes			
DC Reverse Polarity Protection	Yes			
Insulation Detection	Yes			
DC / AC Surge Protection	DC Type II; AC Type III; Type II Optional			
Residual Current Monitoring	Yes			
AFCI	Optional			
General Specifications				
Dimensions (W x H x D)	380 x 483 x 161 mm		380 x 483 x 193 mm	380 x 483 x 193 mm
Weight	15.5 kg		16.8 kg	18.7 kg
Operating Temperature Range	-25°C ~+ 60°C			
Cooling Type	Natural cooling		Fan cooling	Fan cooling
Max. Operating Altitude	4000 m (>3000 m derating)			
Max. Operating Humidity	0 ~ 100%			
AC Output Terminal Type	OT			
IP Class	IP66			
Topology	Transformerless			
PV Input Terminal Type	MC4			
Display	LCD			
Certification & Standard	EN/IEC 62109-1; EN/IEC 62109-2; IEC/EN 61000-6-1; IEC/EN 61000-6-3; IEC/EN 61000-6-2; IEC/EN 61000-6-4; IEC 61683; IEC 60068; IEC 62116; IEC61727;			

