

FUSION IP-66

Three Phase / On-Grid / 80 KW

FEATURES:

- ▶ Maximum MPPT Current 45 A
- ▶ Compatible 800W+ Panels Per MPPT
- ▶ Max DC Support 120 KW
- ▶ Max Output Efficiency 98.8%
- ▶ Built In AC & DC Protection Card/SPD
- ▶ IP66 Protection



AI SMART
SAFETY



DUAL MPPT



IP66
PROTECTION



1.5 DC RATIO



98.8%
EFFICIENCY



1100V DC INPUT



10-YEARS
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

- 45A High-Current MPPT
- Max DC support 120kW
- Up to 98.8% efficiency
- Grid-compliant reactive power control
- 10-Year Replacement Warranty

MODEL	Fusion-80KW
Input (DC)	
Recommended Max PV I/P Power	120KW
Max. DC Voltage	1100 V
Nominal Voltage	650 V
Start Voltage	180 V
MPPT Voltage Range	200 - 1000 V
MPPT Voltage Range(Full load)	550 - 850 V
Number of MPPT	4
Max.Number of String per MPPT	3
Max. Input Current per MPPT	45 A
Max. Short-circuit Current per MPPT	60 A
Output (AC)	
Nominal AC Output Power	80 KW
Max. AC Output apparent Power	88 KVA
Max. AC Output active Power	88 KW
Nominal Voltage	400 / 230 V, 3P+N+PE
AC Grid Frequency Range	50Hz/60Hz
Maximum Output Current	127.5 A
Power Factor (Φ)	-0.8 leading +0.8 lagging
THDi	3%
Efficiency	
Max. Efficiency	99%
Euro Efficiency	98%
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)	548 x 540 x 289 mm
Weight	55 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Type	Fan cooling
Max. Operating Altitude	5000 m (>4000 m derating)
Max. Operating Humidity	0 ~ 100%
AC Output Terminal Type	PG + OT
IP Class	IP66
Topology	Transformerless
PV Input Terminal Type	MC4
Display	LED
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;