



FPG-SM

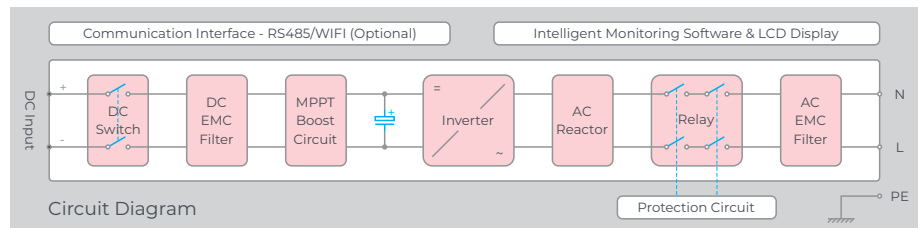
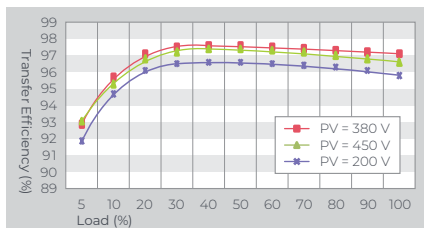
1-PHASE, SINGLE MPPT
GRID-TIED PV INVERTER

EFFICIENCY UPTO **97.6%**

1~3KW MAX. OUTPUT

IP65 PROTECTION

OVERVIEW



CHOOSING FREDTON

Specialized vendor with ability to supply all the elements like PV module, inverter, mounting system, and also UPS system. Reliable partner of distributors, installers and system integrators with local warehousing, delivery service and after sales support. Manufacturing with international quality management standards and environment management system ISO 9001 and ISO 14001.

KEY FEATURES



Economical & Flexible
Maximum efficiency 97.6%; Maximum PV voltage up to 500V; Parallelabale via RS485 port; GPRS/WIFI communication as optional.



Safe & Reliable
Harshet IP65 industrial protection; Natural cooling; Multi-level device protection; Anti-corrosion with aluminum alloy die casting.



Easy to Use
Smaller & lighter, simplified wall-mounting; Easy local & on-line monitoring operational status and electricity generated data.

CERTIFICATIONS



ELECTRICAL CHARACTERISTICS

Input (DC)

Part Number		FPG-SM-1K	FPG-SM-1.5K	FPG-SM-2K	FPG-SM-3K
Maximum DC Power	(W)	1150	1600	2100	3100
Maximum Nominal DC Voltage	(VDC)	500 380			
MPPT Voltage Range	(VDC)	100 ~ 490			
Full Load MPPT Voltage Range	(VDC)	105 ~ 400	145 ~ 400	190 ~ 400	240 ~ 400
Minimum Start DC Voltage	(VDC)	120 130			
Number of MPPT Trackers		1			
Strings per MPPT Tracker		1			
Maximum Current per MPPT Tracker	(A)	11	11	11	13

Output (AC)

Maximum AC Power	(W)	1000	1500	2000	3000
Norminal AC Voltage Range	(VAC)	230 ± 20%			
Norminal AC Grid Frequency	(Hz)	50/60			
AC Grid Frequency Range	(Hz)	50/60 ± 5			
Maximum Output Current	(A)	4.5	7	9	14
Power Factor (Cos φ)		0.9 Leading ~ 0.9 Lagging			
THDI		< 3%			
AC Connection		LN+PE			
Topology		Transformer-less			

Efficiency

Maximum Efficiency		96.5%	96.5%	97.6%	97.6%
European Efficiency		96.0%	96.0%	97.0%	97.0%
MPPT Efficiency		99.9%			
Stand-by Night Consumption	(W)	< 5 < 0.2			

PHYSICAL CHARACTERISTICS

Part Number		FPG-SM-1K	FPG-SM-1.5K	FPG-SM-2K	FPG-SM-3K
Dimensions (W x L x D)	(mm)	264 x 326 x 127			
Weight	(Kg)	7.6	8.1	8.1	8.6

PROTECTIONS

AC Leakage Current Fault	■	DC Surge	■
Ground Fault	■	AC Surge	■
Anti-islanding	■	DC Reverse Polarity	■
DC Over-voltage	■	Enclosure Protection Rating	IP65

ENVIRONMENT

Operating Temperature Range	(°C)	-25 ~ +60
Noise Emission (Typical)	(dB)	≤ 25
Cooling Type		Natural

FEATURES

LCD Display	■
DC Switch; RS485 Interface	■
WIFI/GPRS (Overriding RS485)	□

CERTIFICATIONS

Quality Assurance	ISO 9001 & ISO 14001 Certified
Certificates & Approvals Available upon Request	IEC 62109, IEC 61000, IEC 61727, IEC 61683, IEC 62116 CE, VDE 0126, EN 50438, PEA/MEA