



FPG3-TM

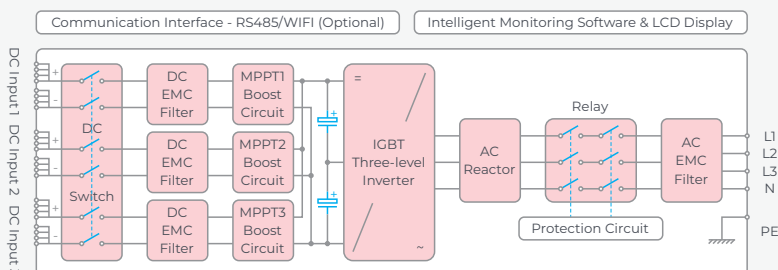
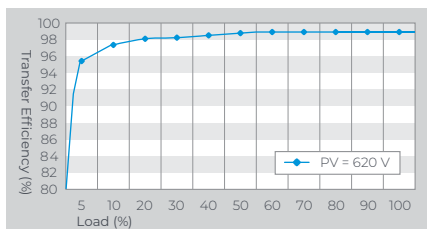
3-PHASE, TRIPLE MPPT
GRID-TIED PV INVERTER

EFFICIENCY UPTO **98.6%**

30 ~ 60KW OUTPUT

IP65 PROTECTION

OVERVIEW



Circuit Diagram

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 98.6%; Maximum PV voltage up to 500V; Parallelable via RS485 port; GPRS/WIFI communication as optional.



Safe & Reliable

Harshest IP65 industrial protection; Comply with VDE 4105; 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		FPG3-TM-30K	FPG3-TM-50K	FPG3-TM-60K
Maximum DC Power	(KW)	39	65	78
Maximum Norminal DC Voltage	(VDC)		1000 620	
MPPT Voltage Range	(VDC)		250 ~ 950	
Full Load MPPT Voltage Range	(VDC)	400 ~ 800	480 ~ 800	500 ~ 800
Minimum Start DC Voltage	(VDC)		200 250	
Number of MPPT Trackers			3	
Strings per MPPT Tracker		2	4	4
Maximum Current per MPPT Tracker	(A)	26/26/26	36/36/36	40/40/40

Output (AC)

Norminal Maximum AC Power	(KW)	30 33	50 55	60 66
Norminal AC Voltage Range	(VAC)		400 $\pm 20\%$	
Norminal AC Grid Frequency Range	(Hz)		50/60 ± 5	
Rated Maximum Output Current	(A)	44 48	72 80	87 95
Power Factor (Cos ϕ)			0.8 Leading ~ 0.8 Lagging	
THDI			< 3%	
AC Connection			3W+N+PE	
Topology			Transformer-less	

Efficiency

Maximum Efficiency		98.3%	98.6%	98.6%
European Efficiency		98%	98.2%	98.2%

PHYSICAL & ENVIRONMENT CHARACTERISTICS

Part Number		FPG3-TM-30K	FPG3-TM-50K	FPG3-TM-60K
Dimensions (W x L x D)	(mm)		636 x 958 x 260	
Weight	(Kg)	61	68	70
Operating Temperature Range	(°C)		-25 ~ +60	
Noise Emission (Typical)	(dB)	≤ 40	≤ 60	≤ 60
Cooling Type		Natural	Fans	Fans
Enclosure Protection Rating			IP65	

PROTECTIONS

AC Leakage Current Fault	■	DC Over-voltage	■
LVRT	■	DC Surge	■
Ground Fault	■	AC Surge	■
Anti-islanding	■	DC Reverse Polarity	■

FEATURES

LCD Display	■
RS485 Interface	■

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, VDE 4105, PEA/MEA