

1-PHASE, 12.5KVA AMF



PRODUCT OVERVIEW

Automatic mains failure Panel commonly known as “AMF Panel”, designed by Lineage Power is a rugged, compact & user-friendly power system that manages and controls the power requirements at the Telecom tower sites. AMF design ensures efficient, cost-effective switching between EB, battery, and the Gen set (DG).

The AMF system is equipped with a 32-bit Microcontroller provisioned with LCD & LED indications on the front panel which provides complete functionality for power management, Monitoring & Control optimally designed considering the India Market Requirements, with inbuilt special features such as dual source EB & DG AC Energy Monitoring, EB, DG & Battery run hours, DG functionality, monitoring auxiliary function such as System Door open, Smoke Fire (optional), DG faults, etc.

KEY FEATURES

- Highly compact design, user friendly and easy access (IP 55)
- Automatic mains failure (AMF) functions with wide band input range (EB) of 90V to 300Vac
- Efficiency of the system (AMF)>99%
- EB Neutral & DG Neutral isolation for fail proof operation
- Monitoring of EB, DG and Battery parameters
- DG protections & EB protections
- Real time clock & 1000 event logs.
- Temperature based AMF internal fan control



With the input Grid (EB) supply failure, the unit automatically switches ON the diesel generator unit and transfers the load based on the site battery voltage status.

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TECHNICAL SPECIFICATIONS

PARAMETER		PARAMETER DESCRIPTION
TOPOLOGY	Ultimate Capacity	12.5 kva
INPUT (GRID/MAINS)	Connectivity / Termination	63a/2p mcb (For L & N)
	No. Of Phase	Single phase, 2 wire (Line & Neutral)
	Voltage Range	170v – 270v (Line to Neutral) Nominal
	Input Current	As per rated capacity
INPUT (GENSET)	DG System	Single phase, 2 wire (Line & Neutral)
	Rating / DG Capacity	Suitable up to 12.5kva DG capacity
	Connectivity / Termination	63a/2p mcb (For L & N)
		
SYSTEM PERFORMANCE	System (AMF) Efficiency	>99%
AMF	Switching	Equipped with individual contactors for Grid & genset source
		Neutral isolation through contactors during switching
		Electrically and Mechanical interlock b/w Grid (EB) and Genset(DG) Contactors
OUTPUT	Termination	Provided terminal blocks (with Bus Bars) for line And neutral termination
MODES OF OPERATION	AMF Functional Modes	Auto mode & manual mode (manual change over)
AMF CONTROLLER	Operating Voltage	11v – 16v
	Controller	32 bit ARM7 microcontroller
	Display	4 line LCD with back light display (4 lines x 20 characters alpha numeric display)
	Keypad	5 key pad buttons in front panel for easy user access
	Event Logging	1000 date & time stamped alarms / event logs with raise & clear with FIFO
	Digital Input	Configurable up to 16 digital inputs
	Digital Output	Configurable up to 12 potential free contacts (PFC) with C NO and C NC

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ANALOG INPUTS (MONITORING / MEASUREMENTS)	Grid (EB / Mains)	Voltage, current, run hours ,cumulative energy
	Genset (DG)	Voltage, current, auto, manual & total run hours Cumulative energy ,dg battery voltage
	Site Battery	Voltage, Run Hours
	Temperature	AMF cabinet temperature
ENCLOSURE/ MECHANICAL	Type & Degree Of Protection	Ip 55 (outdoor) with 1.5 mm thick gi sheet duly Powder coated
	Dimension (H x W x D)	732 (H) x 555 (W) x 423 (D) in mm
	Cooling	Forced air cooling
INSTALLATION	Cable Access	Cable entry bottom side with suitable PG glands for entry and exit
	Earthing / Grounding	Provided earth bus bar inside the ats unit and Diagonally on the plinth
ENVIRONMENTAL	Operating Temperature	-5 °C to +55 °C
	Storage Temperature	-20 °C to +70 °C
	Humidity	95% rh
	Noise Level	< 60 db



MODELS

MODEL NOS.	CAPACITY (KVA)	MODEL NOS.	CAPACITY (KVA)
AMF005K1P	5.0	AMF030K1P	30
AMF007K1P	7.5	AMF040K1P	40
AMF010K1P	10	AMF050K1P	50
AMF012K1P	12.5	AMF060K1P	60
AMF015K1P	15	AMF075K1P	75
AMF020K1P	20	AMF100K1P	100
AMF025K1P	25	AMF125K1P	125

ORDERING INFORMATION

Please contact your Lineage Power Sales Representative for pricing, lead-time/availability of the listed model nos. and in case of any customized requirement.

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