

MATC UPS

Power Protection And Back Up For Traffic Controllers

PPK Technology produced a power uninterruptable power supply (UPS) which provides back up supply to the traffic controller in case of loss of power. The UPS consists of a charger, inverter and battery pack unit. The charger ranges from 1.2kVA, 2kVA, 2.5kVA and 3kVA while the battery pack consists of 2 to 6 units of 100aH maintenance free sealed lead acid (SLA) batteries.

The UPS system can provide back up of between 2 to 6 hours of power to the traffic controller system depending on the type and quantity of signal aspects and countdown (if any) load. The UPS can also be linked to the Advanced Processing Unit (APU) for remote monitoring to the MITS control center. Parameters such as power on, power cutoff (UPS take over) and battery weak can be monitored and transmitted to either an MITS control center or via an SMS module.





Key Features:

- * Backup 2-6 hours when power fails (additional back up time can be incorporated)
- * Avoids road accidents and injury resulting from traffic system downtime
- * Built-in Reactor Power Line Conditioner can protect traffic lights against utility power fluctuation
- * Compatible with PPK and non-PPK traffic controllers
- * Can be linked to SMS alert module and MITS control center

Operational Specifications:

Item	Specifications
Power Rating	1.2, 2, 2.5 and 3kVA
Average Load	600-900 Watts
Back-Up Time	2-6 depending on load and battery / charger capacity
Battery Type	100Ah SLA Maintenance Free Battery (2-6 battery packs)
Type of Chassis	Open Frame External Battery Connection
Recharge Time	24 Hours For 100% Discharge of Battery
Indicators	Charging LED, Battery Mode/Mains Failure LED, Battery Low LED
Volt-Free Contact Output	Mains Failure Contact, Battery Low

Mechanical and Electrical Specifications:

Item	Specifications
Cabinet format	Fits into 4 door MATC controller or separate cabinet required for more than 2 batteries
Dimensions in cm (2 kVA)	Charger unit (33.02 x 25.4 x 22.8) and inverter (25.9 x 21.1 x 19.8)
Weight	18 Kg
Incoming voltage and frequency	230V, Vac \pm 10% at 50Hz
Power Consumption	500 mWatt
Operating Temperature	-10°C to 75°C
Humidity Tolerance	85% Non-condensing
Degree of Protection	IP33 compliant
Electromagnetic Compatibility Standard	BS EN 50293 : 2012 compliant
Mechanical Standard	IEC 255-21-1; IEC 255-21-2 compliant
Environmental Standard	IEC 60068-2-2; IEC 60068-2-3; IEC 60068-2-30 compliant

PPK Technology products are available nationwide in Malaysia or overseas through selected agents. Products can be supplied, installed, configured and tested by PPK Technology or an approved contractor. For a complete list of products and services available and technical support staff, contact our office or visit our website.

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