

MK12 SMART PoE POWERBANK

USAGE RISK ASSESSMENT

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Document History

Issue	Date	Status / Changes
1	04/02/2022	Initial Document

Title:	Smart PoE Powerbank usage risk assessment
Scope of work:	All general use-cases of the Smart PoE Powerbank
Location:	All locations

Severity																
Likelihood of Event		C	Cr	Se	M	N	Severity		Likelihood							
	F	U	U	H	M	L	C	Catastrophic (Multiple fatalities severe widespread environmental damage)	F	Frequent (Not surprised, will occur several times)						
	P	U	U	H	M	L	Cr	Critical (Single fatality and/or multiple severe injuries, occupational illness or environmental impact)	P	Probable (Occurs repeatedly/an incident to be expected)						
	O	H	H	M	L	T	Se	Serious (Single severe injury or occupational illness and/or multiple minor injuries or minor occupational illness)	O	Occasional (Could occur sometimes)						
	R	M	M	L	T	T	M	Minor (Minor injury/short term absence)	R	Remote (Unlikely though conceivable)						
	I	L	L	T	T	T	N	Negligible (Trivial injury (First aid only)/ environmental damage to plants)	I	Improbable (Could happen but probably never will)						
Comments:							Risk Rating									
							Unacceptable/Very High Risk		Work shall not proceed or facility shall not be used.							
							High		Reduce risk through additional controls if practicable, if not, Permit to Work may be required in addition to Safe Method of Work; competency levels appropriate and documented.							
							Medium		Reduce risk through additional controls if practicable, if not, add to the Safe Method of Work the levels of competency should be appropriate.							
							Low		This work which may be of a routine nature will require a Safe Method of Work.							
							Trivial		Additional controls required only if the benefits justify the effort.							
What Are the Potential Hazards?				Who Will This Effect and How?			Likelihood	Severity	Risk Rating	What Are You Doing About It?				Likelihood	Severity	Risk Rating

Risk of RF interference	Anyone using Smart PoE powerbank	N	I	T	RF (WiFi) module is certified and compliant with FCC standards. It is however conceivable that some legacy communications may not themselves be compliant with current regulations. It is VERY unlikely that this will cause interference, as legacy radio comms does not operate on the 2.4GHz and 5GHz spectrums. If deploying Smart PoE Powerbank in an environment with mission sensitive, legacy RF infrastructure, device should be qualified for use with reverent personnel to insure it does not interfere.	N	I	T
Risk of electrocution	Anyone using the Smart PoE Powerbank	I	M	T	Device utilises low voltage electronics only, aside from the AC charger. Use only serviceable cables for IO and power.	I	M	T
Risk of fire	Anyone using the Smart PoE Powerbank	R	Se	L	Do not disassemble device or attempt to modify, do not crush device, do not subject device to high G-force impacts, do not use device if damaged. Charge with provided Li-Ion charger only. Do not charge device whilst it is powered on. Battery has independent BMS installed	I	M	T
Risk of EMI interference	Anyone using the Smart PoE Powerbank	N	I	T	Device itself has been tested and found to comply with EMI regulations. If deploying Smart PoE Powerbank in an environment with mission sensitive, legacy RF infrastructure, device should be qualified for use with reverent personnel to insure it does not interfere.	N	I	T
Device falling and striking someone	Anyone using the Smart PoE powerbank, or people walking under an installation	R	Se	L	User should ensure device is properly secured to an appropriate structure, utilising the cable tie mount, or magnetic mounting if the device is positioned at greater than chest height. Device should not be mounted over walkways.	I	Se	T
Device falling and pulling plugged in equipment with it, causing damage to that equipment	Anyone using the Smart PoE Powerbank	O	N	T	User should ensure device is properly secured to an appropriate structure, utilising the cable tie mount or magnetic mounts if the device is positioned at greater than chest height. User should ensure appropriate cable management is conducted, and working area is tidy.	R	N	T
