

POWERKEY ULTIMATE SERIES *test data*



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Compliant Test

Test Description

EN 55022:2010	Radiated Disturbance 30 MHz to 1000 MHz Class B Limits
EN 61000-4-8	Tested at 12 and 24 VDC 50 Hz 1A / m 60 s duration each axis
EN 61000-4-3	Tested at 12 and 24 VDC 80 MHz to 1000 MHz
EN 61000-4-2	Contact discharge 4 kV Criteria B Air discharge 8 kV Criteria B 10 discharges each polarity
EN 61000-4-6	Tested at 12 and 24 VDC 0.15 MHz to 80 MHz
EN 61000-4-4	500 V level 5 kHz burst frequency > 60s Positive and negative pulses
CISPR 25 RE-ALSE	150 kHz to 2500 MHz Class 3 limits
CISPR 25 CE-V	150 kHz to 108 MHz Class 3 limits
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ISO 7637-2 Pulse 1	Tested at level IV [-600V/1 ms] for 24VDC 500 pulses 1-2 second repetition
ISO 7637-2 Pulse 2a	Tested at level IV [+112V/50 us] for 24VDC 500 pulses ½ second repetition
ISO 7637-2 Pulse 2b	Tested at Vs 20V levels 10 pulses 2 second repetition
ISO 7637-2 Pulse 3a/3b	Tested at level IV [+/- 300V/5x100ns] for 24VDC 1 hour each polarity
ISO 7637-3 a&b	Tested at level IV [+/- 150V] for 24VDC CCC 10 minutes each polarity
ISO 7637-3 slow	Tested at level IV [+/- 10V] for 24VDC ICC 5 minutes each polarity
ISO 11452-2 ALSE	200 MHz – 2000 MHz 100V / m CW & 1 kHz AM 200 – 800 MHz CW & GSM PM 800 – 2000 MHz
ISO 11452-4 BCI	1 – 400 MHz 200mA CW & 1 kHz AM
ISO 10605 Direct ESD	DBCI 1 – 30 MHz 15 & 45 cm injection CBCI 30 – 400 MHz 45 & 75 cm injection Contact discharge 8 kV Air discharge 15 kV 10 discharges each polarity
Sec 4.6.4 Load Dump Clamped	24V clamped Us* 58V
ISO 16750-3 Sec 4.1.2.8 Test VIII	Random Vibration 10 – 2000 Hz 8 hours each axis
ISO 16750-3 Sec 4.2.2	Shock 50G ½ sine 6 mS 10 pulses each axis and direction
ASTM B117-11	Salt Fog atmosphere 35C 300 hours continuous

Module	Operating Voltage DC	Current in mA at 12VDC input	Operating Temperature in °C	Jump Start withstand 48V for 5 minutes
PKU2200M	9 – 32	80	-40 – 85	Yes
PKU2400M	9 – 32	160	-40 – 85	Yes
PKU2200	9 – 32	120	-40 – 85	Yes
PKU2400	9 – 32	250	-40 – 85	Yes
PKU2600	9 – 32	250	-40 – 85	Yes

1955 West State Rd 426 | Oviedo, FL 32765 | Tel: 407.359.8171 | Fax: 407.359.8170
info@hmisystems.net | www.hmisystems.net

