



POWER SUPPLY SPECIFICATION

MODEL NO.	MW MD15EU	ISSUE DATE	2021-07-23
CUSTOMER	Minwa	REF. NO.	

INPUT

INPUT VOLTAGE	100 to 240 Vac
INPUT FREQUENCY	60 / 50 Hz
NO LOAD POWER CONSUMPTION	<0.1W
INPUT FULL LOAD CURRENT (at 100 Vac)	0.5 A

OUTPUT

OUTPUT VOLTAGE (DC)	9.0 / 12.0 / 13.5 / 15.0 / 18.0 / 20.0 / 24.0V
OUTPUT CURRENT	9V/12V/13.5V/15V,1.5A;18V/20V,1.2A;24V,1A

OVERALL PERFORMANCE

TOTAL OUTPUT POWER	24.0W Max
AVERAGE ACTIVE EFFICIENCY	Min 83.59% (for 9.0V); Min 85.01% (for 12.0V); Min 85.53% (for 13.5V); Min 85.96% (for 15.0V); Min 85.80% (for 18.0V); Min 86.2% (for 20.0V); Min 86.21% (for 24.0V)
EFFICIENCY AT LOW LOAD (10%)	Min 73.59% (for 9.0V); Min 75.01% (for 12.0V); Min 75.53% (for 13.5V); Min 75.96% (for 15.0V); Min 75.80% (for 18.0V); Min 76.2% (for 20.0V); Min 76.21% (for 24.0V)

PROTECTION

<input checked="" type="checkbox"/> OVER CURRENT PROTECTION	<input checked="" type="checkbox"/> SHORT CIRCUIT PROTECTION
<input checked="" type="checkbox"/> OVER VOLTAGE PROTECTION	<input checked="" type="checkbox"/> L.P.S (Limits for power source)
<input checked="" type="checkbox"/> OVER POWER PROTECTION	<input type="checkbox"/> AUTOMATIC THERMAL PROTECTION

HI-POT

INPUT TO OUTPUT	3000Vac 5 mA 50 Hz
INPUT TO CASE	3000Vac 5 mA 50Hz
OUTPUT TO CASE	500 Vac 5 mA 50Hz
ISOLATION RESISTANCE	100 M Ohms I/P-O/P I/P/Enclosure
APPLIANCE	Class II

ENVIRONMENTAL

OPERATING TEMPERATURE	0 °C to 25 °C
STORGE TEMPERATURE	-20 °C to 60 °C
OPERATING HUMIDITY	20%-85% RH. NON-CONDENSING
STORGE HUMIDITY	10%-90% RH. NON-CONDENSING

SAFFTY STANDARDS

SAFETY STANDARDS	EN 61558-2-16:2009+A1:2013 conjunction with EN IEC 61558-1:2019
EMC STANDARDS	EN 55032:2015 EN55035:2017

RELIABILITY

MTBF	30000 Hours min
BURN-IN	4 Hours 25°C, full load, 220Vac, 50Hz

MECHANICAL SPECIFICATION

DIMEMSION	87.5 mm(L) x 51.0 mm(W) x 40.1mm(H) (excluded plug) 87.5 mm(L) x 51.0 mm(W) x 77.4mm(H) (included plug)
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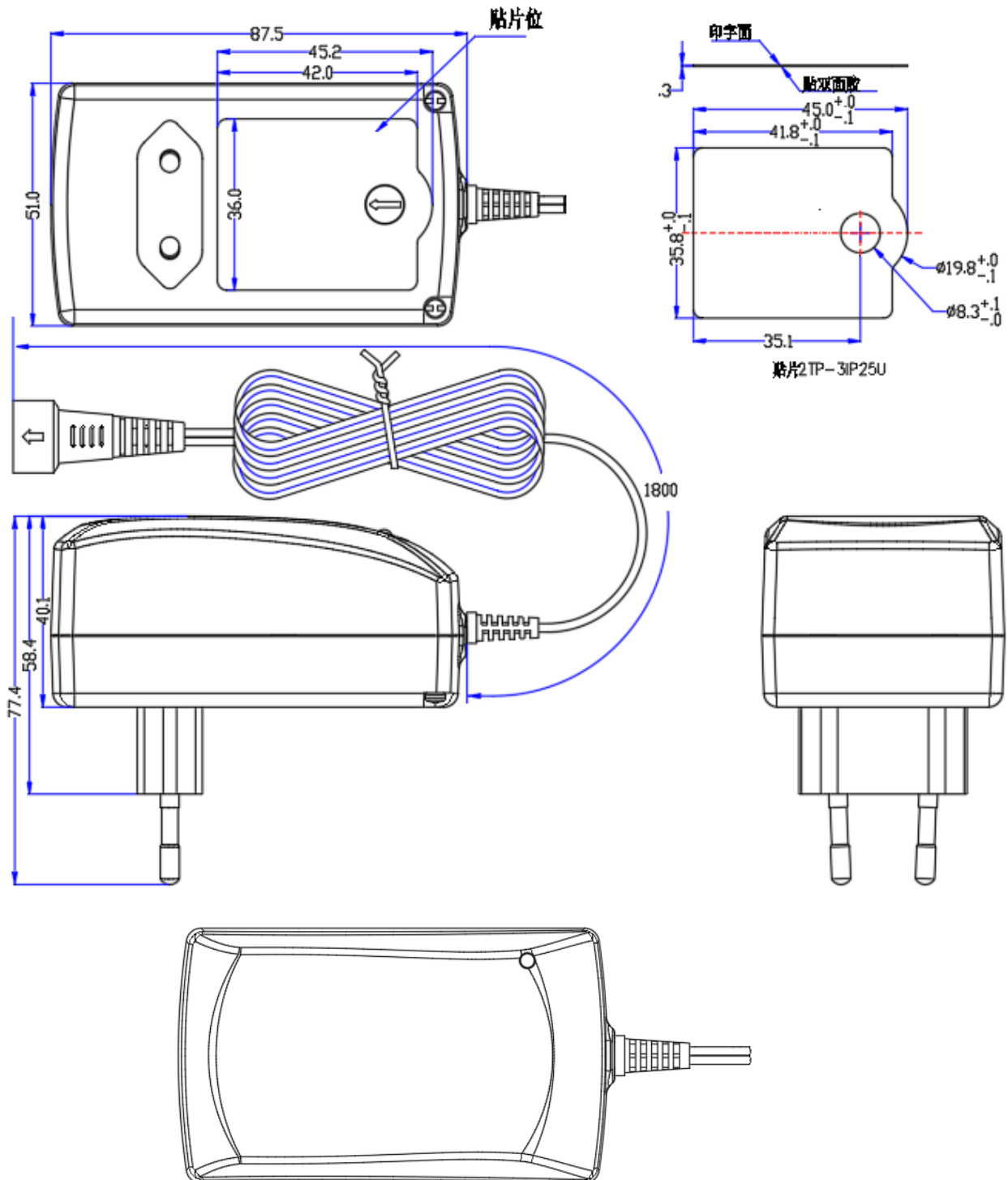


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WEIGHT	200g MAX exclude packing
INPUT PLUG	Direct plug-in EU type
OUTPUT CORD	PVC, Length 1.8m
OUTPUT PLUG	Depends on client request

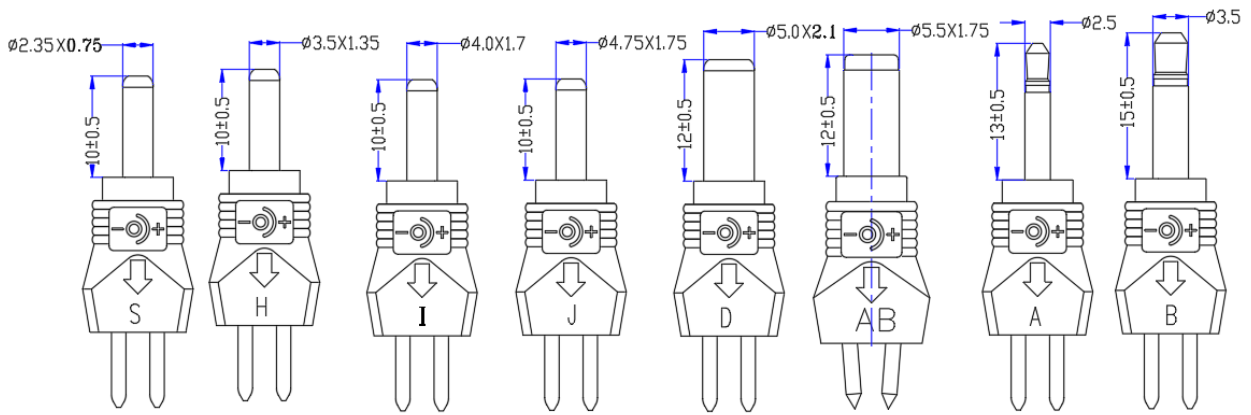
Appearance





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APPROVE: Alex

Date: 2020-04-09