



AC POWER SUPPLY SPECIFICATION

| | | | |
|-----------|----------------|------------|-------------------------------------|
| MODEL NO. | MW MD40PU | ISSUE DATE | 2019-08-09 (Revised: 2021-02-02) |
| CUSTOMER | Minwa Standard | REF. NO. | |

INPUT

| | |
|--------------------------------------|----------------|
| INPUT VOLTAGE | 100 to 240 Vac |
| INPUT FREQUENCY | 60 / 50 Hz |
| NO LOAD POWER CONSUMPTION | <0.21W |
| INPUT FULL LOAD CURRENT (at 100 Vac) | 1200mA |

OUTPUT

| | |
|---------------------|---|
| OUTPUT VOLTAGE (DC) | 12.0 / 15.0 / 16.0 / 18.5 / 19.0 / 20.0 / 24.0V 12.0 to 24.0V No load state changes output voltage Press once, voltage changes once (e.g. 12V to 15V). When the output voltage of no-load state is not 12V, the output voltage will drop to 12V after 5 minutes. Lock the output voltage: Press and hold 3 seconds on the button, the LED flashes 3 times. The selected voltage is locked. Unlock the output voltage: Press and hold 3 seconds on the button, the LED flashes 3 times. The selected voltage is unlocked. User can press the button to change the voltage. Remark: The selected voltage is memorized after locking. It does not change even the power supply unplug from wall socket until unlocking. |
| OUTPUT CURRENT | 4.2A @12.0V / 4A @15.0V; 3.2A @16.0V; 3A @18.5V / 19.0V/ 20.0V; 2.5A @ 24.0V |

OVERALL PERFORMANCE

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|------------------------------|--|
| TOTAL OUTPUT POWER | 60 W Max |
| AVERAGE ACTIVE EFFICIENCY | Min 88.9% (for 12.0V); Min 85.0% (for 15.0V); Min 89.6% (for 16.0V); Min 89.8% (for 18.5V); Min 89.9% (for 19.0V); Min 90.3% (for 20.0V); Min 91.0% (for 24.0V) |
| EFFICIENCY AT LOW LOAD (10%) | Min 87.88% (for 12.0V); Min 89.3% (for 15.0V); Min 88.7% (for 16.0V); Min 88.6% (for 18.5V); Min 88.4% (for 19.0V); Min 88.3% (for 20.0V); Min 88.0% (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 50 Hz |
| OUTPUT TO CASE | 500 Vac 5 mA 50 Hz |
| ISOLATION RESISTANCE | 100 M Ohms I/P-O/P I/P/Enclosure |
| APPLIANCE | Class II |

ENVIRONMENTAL



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| | |
|-----------------------|----------------------------|
| 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 62368-1:2014+ A11:2017 |
| EMC STANDARDS | EN 61204-3:2000 |

RELIABILITY

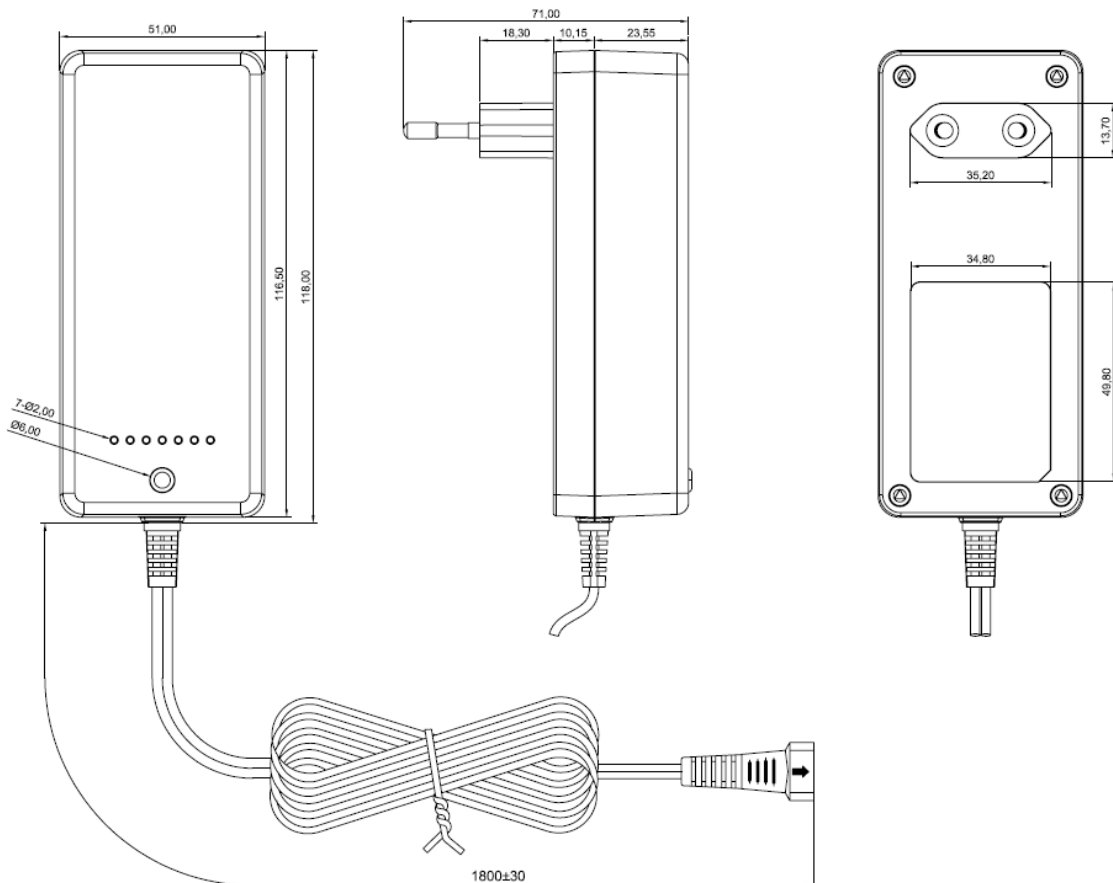
| | |
|---------|---------------------------------------|
| MTBF | 30000 Hours min |
| BURN-IN | 4 Hours 25°C, full load, 220Vac, 50Hz |

MECHANICAL SPECIFICATION

| | |
|-------------|--|
| DIMEMSION | 118.0mm(L) x 51.0mm(W) x 33.7mm(H) (exclude plug) 118.0mm(L) x 51.0mm(W) x 71.0mm(H) (include plug) |
| WEIGHT | 252g MAX exclude packing |
| INPUT PLUG | Direct plug-in EU type |
| OUTPUT CORD | Length 1.8m, Black and White wires |
| OUTPUT PLUG | Depends on client request |

Appearance

LED: Indicate the selected voltage



APPROVE: Alex

AUDITING: Tony

CONNER: Yunshizhang