

# Programmable DC Electronic Load ESHH-5000

## FEATURE

- \* 4-DIGIT AUTO RANGE DISPLAY
- \* CC,CR,CV,CP OPERATION MODE
- \* OVP,OCP,OPP,OTP,RPP PROTECION
- \* HIGH ACCURACY
- \* PORTABLE TYPE SINGLE LOAD or RACK TYPE
- \* DYNAMIC,STATIC, EXTERNAL FUNTION MODE
- \* 24BIT A/D CONVERTER
- \* RS-232C(RS-485) For Interface
- \* POWER MOSFET
- \* ACTIVE POWER DISSIPATION BALANCE

## Application

- \* VOLTAGE AND CURRENT SOURCE TESTING
- \* POWER SUPPLY TRANSIENT RESPONSE
- \* BATTERY DISCHARGE
- \* R&D, QUALITY CONTROLM ATE SYSTEM
- \* POWER SUPPLY LOAD REGULATION
- \* CURRENT LIMIT TEST AND BATTERY
- \* EMULATION BY USING CV MODE



## SERIES MODEL

| No. | WATT  | VOLTAGE | CURRENT | CH        | MODEL      |
|-----|-------|---------|---------|-----------|------------|
| 1   | 200W  | 80V     | 40A     | 1         | SL - 200   |
| 2   |       | 80V     | 40A     | 4         | SL - 2000  |
| 3   |       | 250V    | 20A     | 1         | SM - 200   |
| 4   |       | 500V    | 10A     | 1         | SH - 200   |
| 5   | 300W  | 80V     | 60A     | 1         | SL - 300   |
| 6   |       | 80V     | 60A     | 4         | SL - 3000  |
| 7   |       | 250V    | 30A     | 1         | SM - 300   |
| 8   |       | 500V    | 15A     | 1         | SH - 300   |
| 9   | 600W  | 80V     | 120A    | 1         | SL - 600   |
| 10  |       | 250V    | 60A     | 1         | SM - 600   |
| 11  |       | 500V    | 30A     | 1         | SH - 600   |
| 12  | 1200W | 80V     | 240A    | 1         | SL - 1200  |
| 13  |       | 250V    | 120A    | 1         | SM - 1200  |
| 14  |       | 500V    | 60A     | 1         | SH - 1200  |
| 15  | 2400W | 80V     | 240A    | 1         | SLL - 2400 |
| 16  |       | 80V     | 480A    | 1         | SLH - 2400 |
| 17  |       | 250V    | 120A    | 1         | SML - 2400 |
| 18  |       | 250V    | 240A    | 1         | SMH - 2400 |
| 19  |       | 500V    | 60A     | 1         | SHL - 2400 |
| 20  |       | 500V    | 120A    | 1         | SHH - 2400 |
| 21  | 5KW   | 80V     | 500A    | 1         | SLL - 5K   |
| 22  |       | 80V     | 1000A   | 1         | SLH - 5K   |
| 23  |       | 250V    | 250A    | 1         | SML - 5K   |
| 24  |       | 250V    | 500A    | 1         | SMH - 5K   |
| 25  |       | 500V    | 120A    | 1         | SHL - 5K   |
| 26  |       | 500V    | 250A    | 1         | SHH - 5K   |
| 27  | 10KW  | 80V     | 500A    | 1         | SLL - 10K  |
| 28  |       | 80V     | 1000A   | 1         | SLM - 10K  |
| 29  |       | 80V     | 2000A   | 1         | SLH - 10K  |
| 30  |       | 250V    | 500A    | 1         | SML - 10K  |
| 31  |       | 250V    | 1000A   | 1         | SMH - 10K  |
| 32  |       | 500V    | 250A    | 1         | SHL - 10K  |
| 33  | 500V  | 500A    | 1       | SHH - 10K |            |

# SPEC

| SPECIFICATION              |                        |                  | ESHH-5kW                                  |
|----------------------------|------------------------|------------------|-------------------------------------------|
| OPERATING RANGE            | POWER                  |                  | 5kW                                       |
|                            | VOLTAGE                |                  | 5~500V                                    |
|                            | CURRENT                |                  | 0~250A                                    |
|                            | MIN. OPERATING VOLTAGE |                  | 1.0V at 40A                               |
| MODE                       | CC                     | RANGE            | 0~10A/10~100A/100~250A                    |
|                            |                        | RESOLUTION       | 1mA/10mA/100mA                            |
|                            |                        | ACCURACY         | 0.06%+0.2%F.S                             |
|                            | CV                     | RANGE            | 5~500V                                    |
|                            |                        | RESOLUTION       | 10mV                                      |
|                            |                        | ACCURACY         | 0.08%+0.1%F.S                             |
|                            | CP                     | RANGE            | 0~10W/10~100W/100~1000W/1000~5000W        |
|                            |                        | RESOLUTION       | 10mW/100mW/1W                             |
|                            |                        | ACCURACY         | 0.5%+0.5%F.S                              |
|                            | CR                     | RANGE            | 0.08~10Ω/10~100Ω/<br>100~1000Ω/1000~8000Ω |
|                            |                        | RESOLUTION       | 1mΩ/10mΩ/100m Ω/1Ω                        |
|                            |                        | ACCURACY         | 0.06%+0.2%F.S                             |
| FUNCTION                   | LOAD ON DELAY TIME     |                  | 1ms~5000ms                                |
|                            | DYNAMIC                | MEMORY           | 3CH(T1,T2,T3)                             |
|                            |                        | TIME             | 100μs~1s/1~5s                             |
|                            |                        | RESOLUTION       | 100μs/1ms                                 |
|                            |                        | SLEW RATE        | 0.001~2A/μs                               |
|                            |                        | RESOLUTION       | 0.001A/μs                                 |
|                            |                        | CURRENT          | 0~10A/10~40A                              |
|                            |                        | RESOLUTION       | 1mA/10mA                                  |
| VOLTAGE READ BACK          |                        | RANGE            | 0~10V/10~80V                              |
|                            |                        | RESOLUTION       | 1mV/10mV                                  |
|                            |                        | ACCURACY         | 0.05%+0.1%F.S                             |
| CURRENT READ BACK          |                        | RANGE            | 0~10A/10~100A/100~250A                    |
|                            |                        | RESOLUTION       | 1mA/10mA/100mA                            |
|                            |                        | ACCURACY         | 0.1%+0.1%F.S                              |
| PROTECTION                 |                        | OPP(POWER)       | 5200W                                     |
|                            |                        | OVP(VOLTAGE)     | 510V                                      |
|                            |                        | OCP(CURRENT)     | 255A                                      |
|                            |                        | OTP(TEMPERATURE) | 85°C                                      |
| INPUT RESISTANCE(LOAD OFF) |                        |                  | 80kΩ                                      |
| V SENSE                    |                        |                  | 0~80V                                     |
| I MONITOR                  |                        |                  | 0~250A/0~10V                              |
| EXTERNAL MODE              |                        |                  | 0~250A/0~10V                              |
| PC INTERFACE               |                        |                  | RS-232/RS-485(Built-in)                   |
| WEIGHT (APPROX)            |                        |                  | 200?kg                                    |
| DIMENSION(WxHxD)mm         |                        |                  | 700 x 1400 x 750                          |