



# Внешние подключаемые источники питания серии ESC-ENC

## Технические характеристики



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Ярославль (4852)69-52-93



ESC-120



ESC-240



Under Development

ENC-120



Under Development

ENC-180 / 240 / 360

### ■ Features for ESC Series

- Desktop charger for lead-acid batteries
- AC input range selectable by switch
- Fanless design, cooling by free air convection (ESC-120)  
Forced air cooling by built-in DC fan (ESC-240)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Battery under voltage / over voltage and reverse polarity protection
- 3 color LED loading indicator
- 2 years warranty

### ■ Features for ENC Series

- Desktop charger for lead-acid batteries and Li-ion batteries
- Universal AC input / Full range
- Built-in active PFC function
- Built-in 3 stage charging curve, curve programming option available
- Fanless design, cooling by free air convection
- Protections: Short circuit / Over voltage / Over temperature
- Battery under voltage / over voltage and reverse polarity protection
- Built-in temperature compensation function
- 3 years warranty

| Order No.                | ESC-120                                                                                    | ESC-240 | ENC-120                                                                 | ENC-180                   | ENC-240                   | ENC-360                   |
|--------------------------|--------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------|---------------------------|---------------------------|---------------------------|
| AC input voltage range   | 88~132VAC / 176~264VAC selectable by switch                                                |         | 90~264VAC; 127 ~ 370VDC                                                 |                           |                           |                           |
| AC inrush current (max.) | Cold start, 40A at 230VAC                                                                  |         | Cold start, 65A at 230VAC                                               | Cold start, 70A at 230VAC | Cold start, 75A at 230VAC | Cold start, 80A at 230VAC |
| DC adjustment range      | 13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V                                                    |         | NA                                                                      |                           |                           |                           |
| Overload protection      | 105%~135% fold back current limiting, auto-recovery                                        |         | 110 ~ 125% constant current limiting, auto-recovery                     |                           |                           |                           |
| Over voltage protection  | 115%~135% constant voltage limiting, auto-recovery                                         |         | 110 ~ 130% shut down and latch off o/p voltage, re-power on to recover. |                           |                           |                           |
| Over temp. protection    | Shut down o/p voltage, auto-recovery after temperature goes down                           |         |                                                                         |                           |                           |                           |
| Withstand voltage        | I/P-O/P: 3kVAC, I/P-FG:1.5kVAC, O/P-FG: 0.5kVAV                                            |         | I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC                             |                           |                           |                           |
| Working temperature      | -10~+60°C (refer to output derating curve)                                                 |         | -30~+70°C (refer to output derating curve)                              |                           |                           |                           |
| Safety standards         | CSA 61010-1 approved                                                                       |         | UL60950-1 pending                                                       |                           |                           |                           |
| EMC standards            | EN55022 class B, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11 (EN61000-4-2,3,4 for ESC series) |         |                                                                         |                           |                           |                           |
| Dimension (LxWxH)(mm)    | 150x 140x 75                                                                               |         | 192x 178x 45.5                                                          |                           |                           |                           |

### ■ ESC-120 Series



| Model No.    | Output      | Tol. | R&N   | Effi. |
|--------------|-------------|------|-------|-------|
| ESC-120-13.5 | 13.5V, 0~8A | ±2%  | 120mV | 81%   |
| ESC-120-27   | 27V, 0~4A   | ±1%  | 150mV | 83%   |
| ESC-120-54   | 54V, 0~2A   | ±1%  | 400mV | 84%   |

### ■ ESC-240 Series



| Model No.    | Output       | Tol. | R&N   | Effi. |
|--------------|--------------|------|-------|-------|
| ESC-240-13.5 | 13.5V, 0~16A | ±2%  | 120mV | 81%   |
| ESC-240-27   | 27V, 0~8A    | ±1%  | 150mV | 84%   |
| ESC-240-54   | 54V, 0~4A    | ±1%  | 400mV | 85%   |

### ■ ENC-120 Series

Under Development



UL/CUL/CB/CE/FCC pending

| Model No.  | Output      | Tol. | R&N   | Effi. |
|------------|-------------|------|-------|-------|
| ENC-120-12 | 14.4V, 0~8A | ±1%  | 150mV | 90%   |
| ENC-120-24 | 28.8V, 0~4A | ±1%  | 150mV | 91%   |
| ENC-120-48 | 57.6V, 0~2A | ±1%  | 350mV | 92%   |

### ■ ENC-180 Series

Under Development



UL/CUL/CB/CE/FCC pending

| Model No.  | Output         | Tol. | R&N   | Effi. |
|------------|----------------|------|-------|-------|
| ENC-180-12 | 14.4V, 0~12.5A | ±1%  | 150mV | 91%   |
| ENC-180-24 | 28.8V, 0~6.2A  | ±1%  | 150mV | 92%   |
| ENC-180-48 | 57.6V, 0~3.1A  | ±1%  | 350mV | 94%   |

### ■ ENC-240 Series

Under Development



UL/CUL/CB/CE/FCC pending

| Model No.  | Output         | Tol. | R&N   | Effi. |
|------------|----------------|------|-------|-------|
| ENC-240-12 | 14.4V, 0~16.7A | ±1%  | 150mV | 91%   |
| ENC-240-24 | 28.8V, 0~8.3A  | ±1%  | 150mV | 92%   |
| ENC-240-48 | 57.6V, 0~4.2A  | ±1%  | 350mV | 94%   |

### ■ ENC-360 Series

Under Development



UL/CUL/CB/CE/FCC pending

| Model No.  | Output         | Tol. | R&N   | Effi. |
|------------|----------------|------|-------|-------|
| ENC-360-12 | 14.4V, 0~25A   | ±1%  | 150mV | 91%   |
| ENC-360-24 | 28.8V, 0~12.5A | ±1%  | 150mV | 92%   |
| ENC-360-48 | 57.6V, 0~6.3A  | ±1%  | 350mV | 94%   |

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