

# Charger

108~360W Power Supply and Desktop Charger



### ■ Features for ESC/ESP Series

- AC input range selectable by switch
- Fanless design, cooling by free air convection (ESP/ESC-120)  
Forced air cooling by built-in DC fan (ESP/ESC-240)
- Protections: Short circuit / Overload /  
Over voltage / Over temperature
- 3 color LED loading indicator
- 2 years warranty

### ■ Features for ENC/ENP Series

- Universal AC input / Full range
- **Energy efficiency Level VI (ENP only)**
- Comply with EISA 2007/DoE, NRCAN, EU ErP and CoC Version 5 for ENP (EISA 2007/DoE, NRCAN, EU ErP for ENP-360)
- Built-in 3 stage charging curve, curve programmable option available (ENC only)
- **Fanless design**, cooling by free air convection
- Protections: Short circuit / Overload (ENP only) /  
Over voltage / Over temperature
- 3 years warranty

### ■ General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Order No.	ESP/ESC-120	ESP/ESC-240	ENP/ENC-120	ENP/ENC-180	ENP/ENC-240	ENP/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, 60A at 230VAC
DC adjustment range	13.5V: 12~15V, 27V: 24~30V, 54V: 48~56V		12V: 11.5~15V, 24V: 23.5~30V, 48V: 47.5~58.8V / NA for ENC			
Overload protection	105%~135% fold back current limiting, auto-recovery		110~125% constant current limiting, auto-recovery / NA for ENC			
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: 0.5kVAC		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 62368-1, EAC TP TC 004 approved		UL62368-1, EAC TP TC 004; BSMI CNS14336-1(ENC series only) approved			
EMC standards	EN55032 class B, EN61000-3-2,-3, EN61000-4-2,3,4		EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11			
Dimension (LxWxH)(mm)	150x 140x 75		192x 178x 45.5			

### ■ ESP/ESC-120 Series

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

□=P/C; P: Power supply, C: Charger

### ■ ENP-240 Series

Model No.	Output	Tol.	R&N	Effi.
ENP-240-12	13.8V, 0~17.4A	±1%	150mV	91%
ENP-240-24	27.6V, 0~8.7A	±1%	150mV	93.5%
ENP-240-48	55.2V, 0~4.4A	±1%	350mV	94%

### ■ ESP/ESC-240 Series

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

□=P/C; P: Power supply, C: Charger

### ■ ENP-360 Series

Model No.	Output	Tol.	R&N	Effi.
ENP-360-12	13.8V, 0~26A	±1%	150mV	91%
ENP-360-24	27.6V, 0~13A	±1%	150mV	93%
ENP-360-48	55.2V, 0~6.5A	±1%	350mV	94%

### ■ ENP-120 Series

Model No.	Output	Tol.	R&N	Effi.
ENP-120-12	13.8V, 0~8.7A	±1%	150mV	89.5%
ENP-120-24	27.6V, 0~4.3A	±1%	150mV	91%
ENP-120-48	55.2V, 0~2.2A	±1%	350mV	91.5%

### ■ ENC-120/180 Series

Model No.	Output	Effi.	Model No.	Output	Effi.
ENC-120-12	14.4V, 0~8A	89%	ENC-180-12	14.4V, 0~12A	91%
ENC-120-24	28.8V, 0~4A	90%	ENC-180-24	28.8V, 0~6A	92%
ENC-120-48	57.6V, 0~2A	90.5%	ENC-180-48	57.6V, 0~3A	93%

### ■ ENP-180 Series

Model No.	Output	Tol.	R&N	Effi.
ENP-180-12	13.8V, 0~13A	±1%	150mV	91%
ENP-180-24	27.6V, 0~6.5A	±1%	150mV	93.5%
ENP-180-48	55.2V, 0~3.3A	±1%	350mV	94%

### ■ ENC-240/360 Series

Model No.	Output	Effi.	Model No.	Output	Effi.
ENC-240-12	14.4V, 0~16A	91%	ENC-360-12	14.4V, 0~24A	91%
ENC-240-24	28.8V, 0~8A	92%	ENC-360-24	28.8V, 0~12A	93%
ENC-240-48	57.6V, 0~4A	93%	ENC-360-48	57.6V, 0~6A	94%