



Power Supply with Battery Backup Unit

EnerXCube 400-M / EnerXCube 450-M
EnerXCube 500-M / EnerXCube 550-M

Features

- ◆ All in One Design
- ◆ Simple and Stylish
- ◆ Built-in 65W USB PD
- ◆ Zero Transfer Time (0 mS)
- ◆ High Peak Power Support
- ◆ Long Backup Time
- ◆ Longevity
- ◆ LiFePo4 Rechargeable Cell
- ◆ RS-232 Communication Interface

Applications

- ◆ PC
- ◆ IPC
- ◆ Workstation



***Patent Pending!**

ICT products face the challenge of sustained and stable operation amid grid resilience issues recently. Frequent power outages and blackouts, sometimes affecting multiple areas, are common and can lead to large-scale disruptions. UPS is commonly used by IT managers to address grid resilience issues but UPS selecting is an issue for IT managers especially to IT equipment is commonly used in worldwide.

By integrating a switched mode power supply with a battery backup unit into one product, we can replace UPS systems, optimizing power and energy conversion efficiency. EnerXCube series is the best choice for your IT equipment by solving power supply with UPS at the same time.

EnerXCube 400-M

Input Voltage Range		90Vac ~ 264Vac								
Input Frequency Range		47Hz ~ 63Hz								
Input Current		≤ 8.0A @100Vac & Full Load / ≤ 4.0A @240Vac & Full Load								
Outputs	+3.3V	+5V	+12V	-12V	+5Vsb	USB PD				
						5V	9V	12V	15V	20V
Max	16A	18A	33A	0.3A	3A	2A	2A	3A	3A	3.25A
Min.	0A	0A	0A	0A	0A	0A				
Regulation	±5%	±5%	±5%	±10%	±5%	±5%				
Ripple/Noise	50 mV	50 mV	120 mV	120 mV	50 mV	380mV				
Total Wattage		400W								
Dimension		190 x 150 x 86 (mm)								
Efficiency		80 Plus Bronze Efficiency								
Hold-up time		≥ 12 ms (W/O BAT Backup)								
Battery		26650 (6S2P) / 153.6Wh								
Backup Time		≥ 20 Min @ Full Load								
Protection		Over Voltage / Over Current / Over Temperature / Short Circuit / Battery Management								
Safety		IEC 62368-1								
EMC		EN 55032 Class B / EN 55035 / IEC 61000-3-X / FCC Part 15								
MSDS Type		UN 38.3								
Communication		RS-232								
Working Temperature		0°C to 40°C								
Storage Temperature		-10°C to + 55°C								
Working Humidity		~ 90% RH non-condensing								
Altitude		5,000 meters above sea level								

*1 Please note that the backup time specification at full load is based on 100% battery SOC.

*2 Please note that FSP has the right to change this specification without notices.

EnerXCube 450-M

Input Voltage Range		90Vac ~ 264Vac								
Input Frequency Range		47Hz ~ 63Hz								
Input Current		≤ 8.0A @100Vac & Full Load / ≤ 4.0A @240Vac & Full Load								
Outputs	+3.3V	+5V	+12V	-12V	+5Vsb	USB PD				
						5V	9V	12V	15V	20V
Max	16A	18A	37.5A	0.3A	3A	2A	2A	3A	3A	3.25A
Min.	0A	0A	0A	0A	0A	0A				
Regulation	±5%	±5%	±5%	±10%	±5%	±5%				
Ripple/Noise	50 mV	50 mV	120 mV	120 mV	50 mV	380mV				
Total Wattage	450W									
Dimension	190 x 150 x 86 (mm)									
Efficiency	80 Plus Bronze Efficiency									
Hold-up time	≥ 12 ms (W/O BAT Backup)									
Battery	26650 (6S2P) / 153.6Wh									
Backup Time	≥ 18 Min @ Full Load									
Protection	Over Voltage / Over Current / Over Temperature / Short Circuit / Battery Management									
Safety	IEC 62368-1									
EMC	EN 55032 Class B / EN 55035 / IEC 61000-3-X / FCC Part 15									
MSDS Type	UN 38.3									
Communication	RS-232									
Working Temperature	0°C to 40°C									
Storage Temperature	-10°C to + 55°C									
Working Humidity	~ 90% RH non-condensing									
Altitude	5,000 meters above sea level									

*1 Please note that the backup time specification at full load is based on 100% battery SOC.

*2 Please note that FSP has the right to change this specification without notices.

EnerXCube 500-M

Input Voltage Range		90Vac ~ 264Vac								
Input Frequency Range		47Hz ~ 63Hz								
Input Current		≤ 8.0A @100Vac & Full Load / ≤ 4.0A @240Vac & Full Load								
Outputs	+3.3V	+5V	+12V	-12V	+5Vsb	USB PD				
						5V	9V	12V	15V	20V
Max	16A	18A	41.6A	0.3A	3A	2A	2A	3A	3A	3.25A
Min.	0A	0A	0A	0A	0A	0A				
Regulation	±5%	±5%	±5%	±10%	±5%	±5%				
Ripple/Noise	50 mV	50 mV	120 mV	120 mV	50 mV	380mV				
Total Wattage	500W									
Dimension	190 x 150 x 86 (mm)									
Efficiency	80 Plus Bronze Efficiency									
Hold-up time	≥ 12 ms (W/O BAT Backup)									
Battery	26650 (6S2P) / 153.6Wh									
Backup Time	≥ 16 Min @ Full Load									
Protection	Over Voltage / Over Current / Over Temperature / Short Circuit / Battery Management									
Safety	IEC 62368-1									
EMC	EN 55032 Class B / EN 55035 / IEC 61000-3-X / FCC Part 15									
MSDS Type	UN 38.3									
Communication	RS-232									
Working Temperature	0°C to 40°C									
Storage Temperature	-10°C to + 55°C									
Working Humidity	~ 90% RH non-condensing									
Altitude	5,000 meters above sea level									

*1 Please note that the backup time specification at full load is based on 100% battery SOC.

*2 Please note that FSP has the right to change this specification without notices.

EnerXCube 550-M

Input Voltage Range		90Vac ~ 264Vac								
Input Frequency Range		47Hz ~ 63Hz								
Input Current		≤ 8.0A @100Vac & Full Load / ≤ 4.0A @240Vac & Full Load								
Outputs	+3.3V	+5V	+12V	-12V	+5Vsb	USB PD				
						5V	9V	12V	15V	20V
Max	16A	18A	45.8A	0.3A	3A	2A	2A	3A	3A	3.25A
Min.	0A	0A	0A	0A	0A	0A				
Regulation	±5%	±5%	±5%	±10%	±5%	±5%				
Ripple/Noise	50 mV	50 mV	120 mV	120 mV	50 mV	380mV				
Total Wattage		550W								
Dimension		190 x 150 x 86 (mm)								
Efficiency		80 Plus Bronze Efficiency								
Hold-up time		≥ 12 ms (W/O BAT Backup)								
Battery		26650 (6S2P) / 153.6Wh								
Backup Time		≥ 14 Min @ Full Load								
Protection		Over Voltage / Over Current / Over Temperature / Short Circuit / Battery Management								
Safety		IEC 62368-1								
EMC		EN 55032 Class B / EN 55035 / IEC 61000-3-X / FCC Part 15								
MSDS Type		UN 38.3								
Communication		RS-232								
Working Temperature		0°C to 40°C								
Storage Temperature		-10°C to + 55°C								
Working Humidity		~ 90% RH non-condensing								
Altitude		5,000 meters above sea level								

*1 Please note that the backup time specification at full load is based on 100% battery SOC.

*2 Please note that FSP has the right to change this specification without notices.