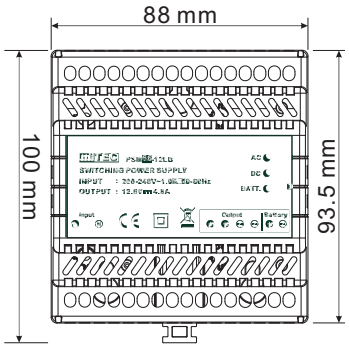
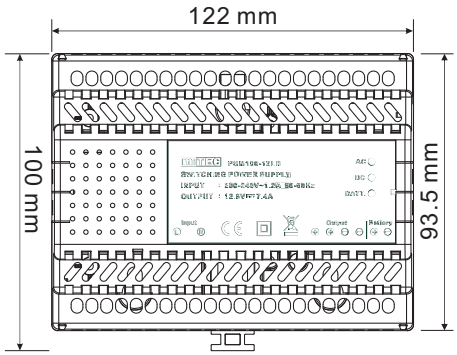
DIN RAIL POWER SUPPLY UNIT



PSM66-12LB
PSM66-24LB
(5U Din Rail)



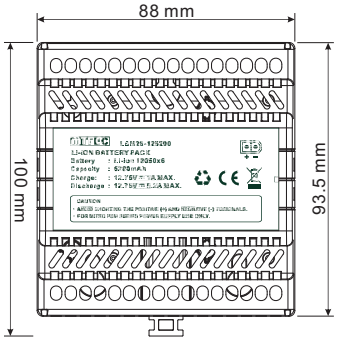
PSM100-12LB
PSM100-24LB
(7U Din Rail)

66/100 W

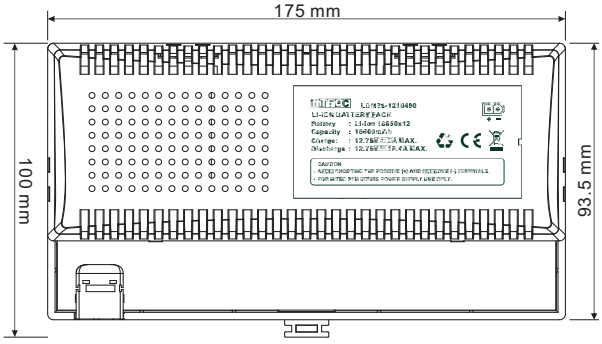
- Power Output:
  DC 12.5V, 4.8A/ DC 25V, 2.4A
  DC 12.5V, 7.4A/ DC 25V, 3.7A
- Built-in 18650 Lithium-ion Charger
- Fully Input and Output Protections
- Double Insulation
- LED Indicator For AC Power On, Normal DC Output and Battery

LITHIUM-ION BATTERY PACK

18650 Li-ion Battery Solution



LBM26-125200
LBM26-242600
(5U Din Rail)
18650 Li-ion Battery * 6 pcs



LBM26-1210400
LBM26-245200
(10U Din Rail)
18650 Li-ion Battery * 12 pcs

- Lighter Weight, Smaller Size
- Easy Installation & Transportation
- Longer Life Cycle
- Better Backup Performance
- Sustainable & More Environmental Friendly Compared to Lead Acid Battery

Comparison Between Lead-Acid Battery & Lithium-ion Battery

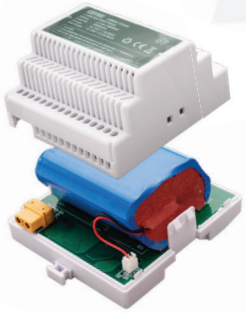
Model : Taiyo 6FM3 ***Lead-Acid Battery***
(1 PCS) 3000 mAh

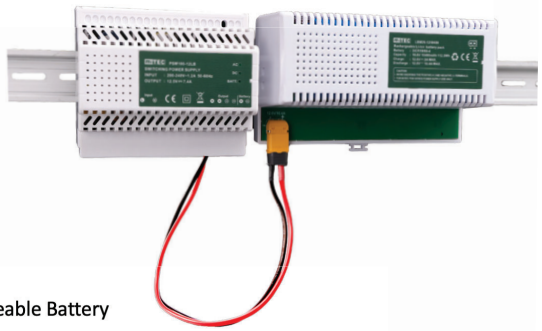
VS

Model : Taiyo ***18650 Lithium-ion Battery***
(3 PCS) 2600 mAh

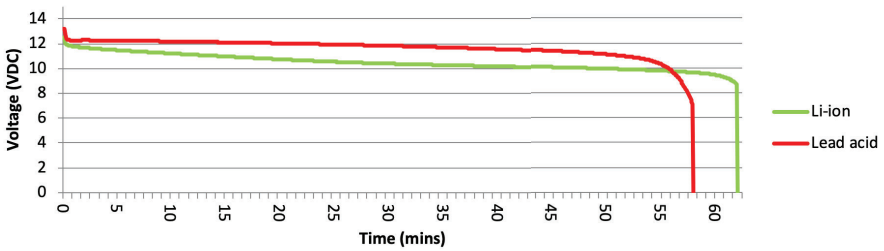
1.32 kg	WEIGHT	0.138 kg — 10X Lighter
13.5 (W) x 6.2 (H) x 6.7 (L)	SIZE	Φ1.9 x 6.5 (H) * 3 PCS
560 cm3	SPACE	55 cm3 — 10X Smaller
3000 mAh	CAPACITY	2600 mAh
~200 cycles	LIFE CYCLE	~500 cycles — 2.5X Longevity
Need to Neutralize the Electrolyte Before Disposal	ENVIRONMENT & SUSTAINABILITY	Easier to Recycle & Smaller Carbon Footprint

18650 Lithium-ion Battery inside





Lead Acid vs **Lithium-ion** Rechargeable Battery
Discharge Curve (5A)



DIN RAIL MOUNT SWITCHING

MODEL		PSM66-12LB	PSM66-24LB	PSM100-12LB	PSM100-24LB
MAIN OUTPUT					
Rated Voltage (VDC)		12.5	25.0	12.5	25.0
Voltage Regulation (VDC)		12.25~12.75	24.6~25.4	12.25~12.75	24.6~25.4
Rated Current (A)		4.8	2.4	7.4	3.7
Rated Power (W)		66		100	
Ripple and Noise (mVp-p)		120 Max.	150 Max.	120 Max.	150 Max.
No. of Output Port (Way)		2		2	
Rise Time (ms)		≤ 80 at full load			
Hold Up Time (ms)		≥ 20 at full load			
BATTERY CHARGER OUTPUT					
Charging Voltage (VDC)		12.6	25.2	12.6	25.2
Charging Current (mA)		400 Max.	300 Max.	600 Max.	300 Max.
Battery Recharge Time (hr.)	LBM26-125200	14.5	N/A	9.5	N/A
	LBM26-1210400	28.5	N/A	19	N/A
	LBM26-242600	N/A	9.5	N/A	9.5
	LBM26-245200	N/A	19	N/A	19
INPUT					
Rated Voltage (VAC)		200~240			
Voltage Range (VAC)		180~264			
Rated Frequency (Hz)		50/60			
Current (A)		≤1.0		≤1.2	
Unload Power Consumption (W)		≤1.5		≤2.0	
Energy Efficiency (%)		≥ 85 at full load			
PROTECTION					
AC Input		Current fuse protection			
Output Short-Circuit		Output hiccup mode occur and auto-recover without damage when fault conditions are removed.			
Output Over Voltage (V)		15~18	29~33	15~18	29~33
Output Over Current (A)		5.0~7.2	2.6~3.6	7.8~11.1	3.9~5.6
Over Temperature (°C)		> +70 (Output hiccup mode occur and auto-recover without damage when the temperature resume normal.)			
Failure to Incorrect Connect the Battery Pack		Battery charger shutdown and auto-recover without damage when fault conditions are removed.			
ENVIRONMENT SPECIFICATION					
Operating Temperature Range (°C)		-10~+40			
Operating Humidity (%)		5~90 RH			
Storage Temperature °C/ Humidity %		-25~+70/ 5~90 RH			
SAFETY					
Safety Standard		Compliance to 2014/35/EU LVD Directive : EN 62368-1			
Withstand Voltage		Input to output: AC 3KV			
Insulation Resistance		Input to output: >20 MΩ/ DC 500V at 25 °C/ 70% RH			

DIN RAIL MOUNT SWITCHING

MODEL	PSM66-12LB	PSM66-24LB	PSM100-12LB	PSM100-24LB

EMC	
Emission	Compliance to 2014/30/EU EMC Directive : EN55032 Class B
Immunity	Compliance to 2014/30/EU EMC Directive : EN55035

LED INDICATOR	
AC/ DC	Light up when AC input is normal and when DC output is normal
BATT	Light up when the battery is charging, off when the battery has been fully recharged or AC input fault

OTHERS		
Dimensions (mm)	88 (W) x 93.5 (L) x 65 (H) 5U Din rail	122 (W) x 93.5 (L) x 65 (H) 7U Din rail
Weight (kg)	0.30 Approx.	0.42 Approx.

LITHIUM-ION BATTERY PACK

MODEL	LBM26-125200	LBM26-242600	LBM26-1210400	LBM26-245200

OUTPUT					
Rated Voltage (VDC)		10.8	21.6	10.8	21.6
Maximum Voltage (VDC)		12.6	25.2	12.6	25.2
Rated Current (A)		5.2 Max.	2.6 Max.	10.4 Max.	5.2 Max.
Capacity (mAh)		56.16 (DC 10.8V / 5200 mAh)	56.16 (DC 21.6V/2600 mAh)	112.3 (DC 10.8V / 10400 mAh)	112.3 (DC 21.6V / 5200 mAh)
Battery Discharge Time (hrs) **	PSM66-12LB	1.1	N/A	2.2	N/A
	PSM66-24LB	N/A	1.1	N/A	2.2
	PSM100-12LB	0.5	N/A	1.4	N/A
	PSM100-24LB	N/A	0.5	N/A	1.4

PROTECTION					
Over Charging Voltage (V)		≥12.75	≥25.5	≥12.75	≥25.5
Discharge Cut-off Voltage (V)		8.1 Approx.	16.2 Approx.	8.1 Approx.	16.2 Approx.
Over Load (A)		5.5~7.5	3.0~4.0	11~15	6.0~8.0
Over Temperature (°C)	Charging	-10~ +50 (Charge interrupt when the temperature of batteries out of range)			
	Discharging	> +70 (Output shutdown, reset by the temperature resume normal)			
Output Short-Circuit		Output shutdown, reset by unplug output connector and make sure fault conditions are removed			

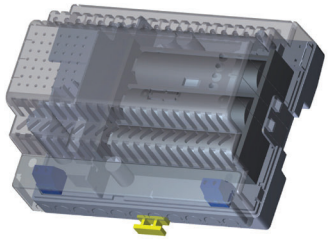
OTHERS		
Dimensions (mm)	88 (W) x 93.5 (L) x 65 (H) 5U Din rail	175 (W) x 93.5 (L) x 61 (H) 10U Din rail
Weight (kg)	0.38 Approx.	0.75 Approx.

** Battery discharge time is measured in room temperature (25℃). The time will decrease depending on the ambient temperature.

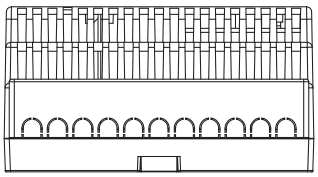
7U Din Rail With Li-ion Battery Holder 40W

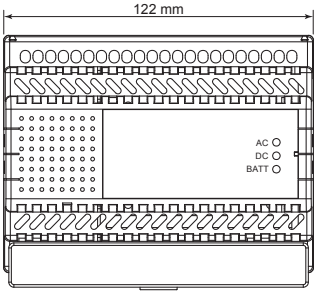
New Product

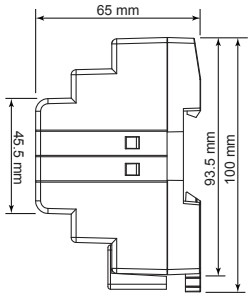
18650 Li-ion Battery Solution



18650 Lithium-ion Battery inside (Optional)

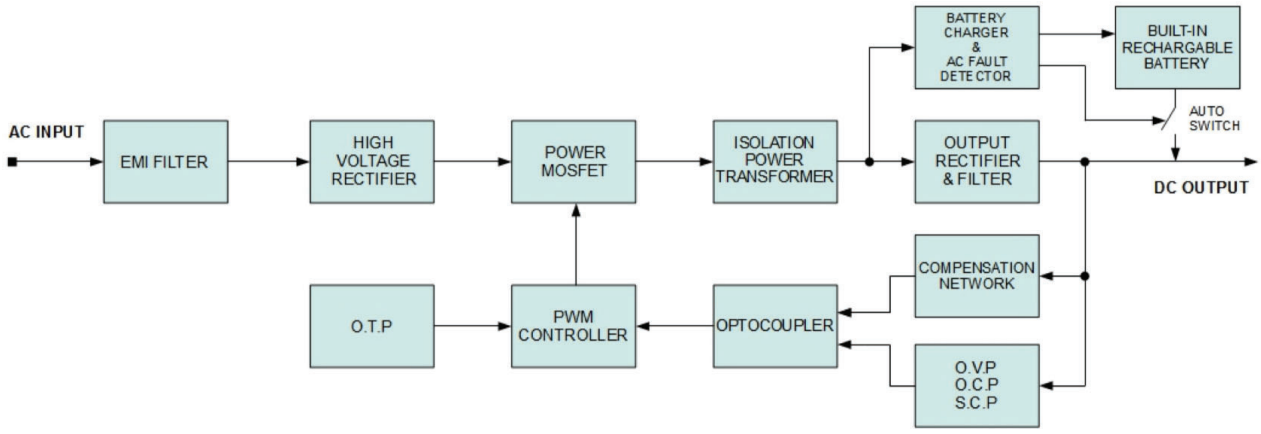






- Power Output: **DC 12.5V, 3A**
- Detachable Design Allow User to Replace Batteries Easily
- 18650 Lithium-ion Rechargeable Cell w/ No Protection Board
- Provide Up to Approx. 50 mins Backup Time
- Simplified Wiring and Space Saving Design
- Fully Input and Output Protections
- Double Insulation
- LED Indicator for AC Power On, Normal DC Output and Battery Charging

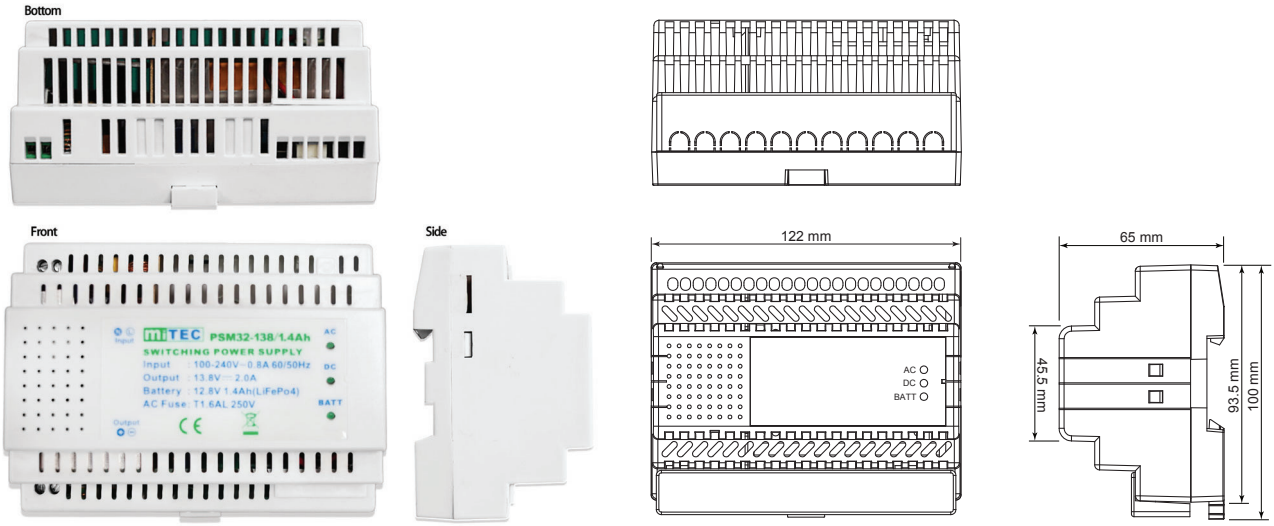
System Block Diagram



* **This product dose not include batteries, please purchase separately.**

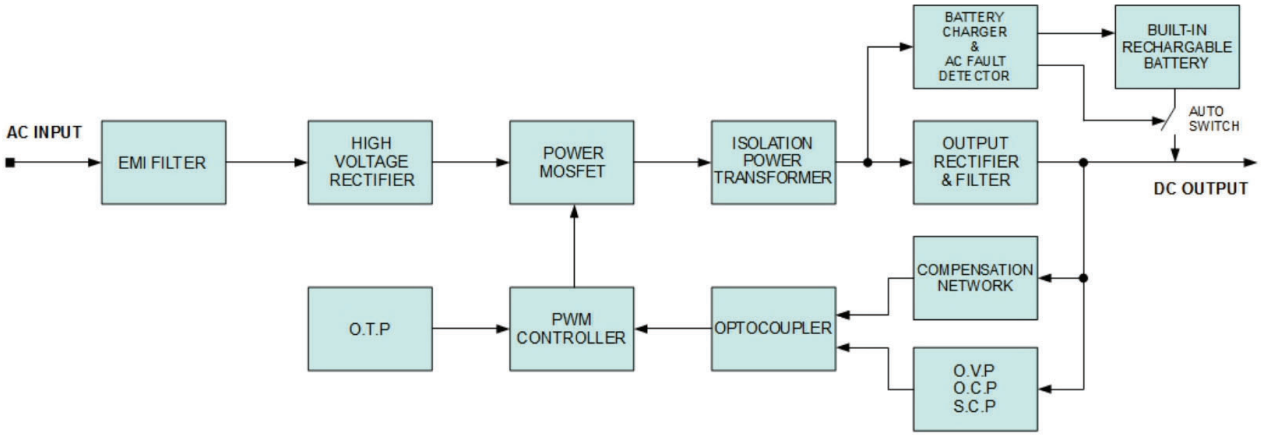
MODEL	PSM40-12B/ 18650
OUTPUT	
Rated Voltage (VDC)	12.5
Voltage Range (VDC)	12.25~12.75
Rated Current (A)	3.0
Current Range (A)	0~3.0
Battery Recharge Time	Approx. 7 hours to fully recharge a completely exhausted battery at 25°C ambient temperature
Battery Discharge Time	Approx. 50 mins at full load condition, measurement based on capacity 2600 mAh battery
Battery Charging Current (A)	0.2~0.3
Rated Power (W)	40 Max.
Ripple and Noise (mVp-p)	120 Max.
Rise Time (ms)	≤ 80 at full load
Hold Up Time (ms)	≥ 50 at full load
INPUT	
Rated Voltage (VAC)	200~240
Voltage Range (VAC)	180~264
Rated Frequency (Hz)	50/60
Frequency Range (Hz)	47~63
Current (A)	≤ 0.6
Unload Power Consumption (W)	≤ 0.5
Energy Efficiency (%)	≥ 84 at full load
PROTECTION	
AC Input	Current fuse protection
Output Short-Circuit	Hiccup mode occur and auto-recovery without damage when fault conditions are removed
Output Over Voltage (V)	15~18
Output Over Current (A)	3.3~3.9
Over Temperature (°C)	95±5 (Output shutdown, reset by recycle AC input)
Battery Low-Voltage Cutoff (V)	8.0~10.0
Batteries Installing in Reverse Polarity	Batteries charger shutdown and auto-recover without damage when fault conditions are removed
ENVIRONMENT SPECIFICATION	
Operating Temperature Range (°C)	-20~+40
Operating Humidity (%)	5~90 RH
Storage Temperature °C/ Humidity %	-25~+70 / 5~90 RH
SAFETY	
Safety Standard	Compliance to 2014/35/EU LVD Directive : EN62368-1
Withstand Voltage	Input to output: AC 3KV
Insulation Resistance	Input to output: > 20 MΩ/ DC 500V at 25 °C/ 70% RH
EMC	
Emission	Compliance to 2014/30/EU EMC Directive : EN55032 Class B
Immunity	Compliance to 2014/30/EU EMC Directive : EN55035
LED INDICATOR	
AC/ DC	Light up when AC input is normal and when DC output is normal
BATT	Light up when the battery is charging
OTHERS	
Dimensions (mm)	122 (W) x 99 (L) x 65 (H) 7U Din Rail
Weight (g)	430 Approx. with batteries/ 295 Approx. without batteries

7U Din Rail LiFePo4 Battery With Charger 32W



- Built-In High Capacity ***LiFePo4*** Battery
- Provide Up to Approx. 30mins Backup Time
- Simplified Wiring and Space Saving Design
- Cooling by Natural Air Convection
- Fully Input and Output Protections
- Safety Double Insulation
- LED Indicator for AC Power On, Normal DC Output and Battery Charging

System Block Diagram



MODEL	PSM32-138/1.4Ah
OUTPUT	
Rated Voltage (VDC)	13.8
Voltage Range (VDC)	13.3~14.1
Rated Current (A)	2.0
Current Range (A)	0~2.0
Battery Recharge Time	Approx. 7 hours to fully recharge a completely exhausted battery at 25°C ambient temperature
Battery Discharge Time	Approx. 30 mins at full load condition
Battery Charging Current (A)	0.25 Max.
Rated Power (W)	32 Max.
Ripple and Noise (mVp-p)	120 Max.
Rise Time (ms)	≤80 at full load
Hold Up Time (ms)	≥50 at full load
INPUT	
Rated Voltage (VAC)	200~240
Voltage Range (VAC)	180~264
Rated Frequency (Hz)	50/60
Frequency Range (Hz)	47~63
Current (A)	≤ 0.8
Unload Power Consumption (W)	≤ 2.0
Energy Efficiency (%)	≥ 80 at full load
PROTECTION	
AC Input	Current fuse protection
Output Short-Circuit	Hiccup mode occur and auto-recovery without damage when fault conditions are removed
Output Over Voltage (V)	15~18
Output Over Current (A)	2.4~3.3
Over Temperature (°C)	95±5 (Output shutdown, reset by recycle AC input)
Battery Low-Voltage Cutoff (V)	9.8~11.3
ENVIRONMENT SPECIFICATION	
Operating Temperature Range (°C)	-20~+60
Operating Humidity (%)	5~90 RH
Storage Temperature °C/ Humidity %	-25~+70/ 5~90 RH
SAFETY	
Safety Standard	Compliance to 2014/35/EU LVD Directive : EN62368-1
Withstand Voltage	Input to output: AC 3KV
Insulation Resistance	Input to output: >20 MΩ/ DC 500V at 25 °C/ 70% RH
EMC	
Emission	Compliance to 2014/30/EU EMC Directive : EN55032 Class B
Immunity	Compliance to 2014/30/EU EMC Directive : EN55035
LED INDICATOR	
AC/ DC	Light up when AC input is normal and when DC output is normal
BATT	Light up when the battery is charging, off when the battery has been fully recharged or AC input fault
OTHERS	
Dimensions (mm)	123 (W) x 99 (L) x 61 (H) 7U Din rail
Weight (g)	435 Approx.