

PHM DIN-RAIL Switching Mode Power Supply

PHM21, PHM35, PHM48, PHM76

- Up To 69W Output Power
- Universal AC Input (AC100 – 240V)
- Cooling by Natural Air Convection
- Built-in Charger For Backup Battery
- Fully Input and Output Protections
- Extra Current Fuse For Individual DC Output Rail
- Safety Double Isolation
- LED Indicator For AC Power On, Normal DC Output and Battery Charging



PRODUCT SPECIFICATIONS

MODEL	PHM21-138	PHM35-138	PHM48-138	PHM76-138	PHM-48-276	PHM76-276
INPUT						
Rated Voltage (VAC)	100 – 240					
Voltage Range (VAC)	90 – 264					
Rated Frequency (Hz)	50 / 60					
Frequency Range (Hz)	47 – 63					
Current (A)	≤ 0.6	≤ 1.0	≤ 1.2	≤ 1.8	≤ 1.2	≤ 1.8
No Load Power Consumption (W)	≤ 1.0					
Energy Efficiency (%)	≥ 82 at full load					
OUTPUT						
Rated Voltage (VDC)	13.8	13.8	13.8	13.8	27.6	27.6
Voltage Range (VDC)	13.1 – 14.5	13.1 – 14.5	13.1 – 14.5	13.1 – 14.5	26.2 – 28.9	26.2 – 28.9
Rated Current (A)	1.0	2.0	3.0	5.0	1.5	2.5
Current Range (A)	0 – 1.0	0 – 2.0	0 – 3.0	0 – 5.0	0 – 1.5	0 – 2.5
Output Port (Way)	1	1	2	3	2	3
Battery Charger (Max. charging current 500mA)	For 12V rechargeable battery (1pc.)				For 12V rechargeable battery (2pcs. in series)	
Rated Power (W)	13.8 Max.	27.6 Max.	41.4 Max	69.0 Max.	41.4 Max	69.0 Max
Ripple and Noise (mVp-p) See Note 2.	150 Max.				150 Max.	
Rise Time (ms)	≤ 80 at full load					
Hold Up Time (ms)	≥ 50 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	15 – 18	15 – 18	15 – 18	29 – 33	29 – 33
Output Over Current (A)	1.7 – 2.3	2.8 – 3.8	3.8 – 5.3	6.1 – 8.3	1.9 – 2.6	3.0 – 4.1
Over Temperature (°C)	95 ± 5					
Battery Low-Voltage (V)	9.0 – 10.5				19.0 – 21.5	
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 CE/LVD					
Withstand Voltage	Input to Output : 3KVAC					
Isolation Resistance	Input to Output: >20MG/500VDC at 25°C/70%RH					
EMC See Note 3.						
Emission	Compliance to EN55022 Class B					
Immunity	Compliance to EN55024, EN61000-4-2,3,4,5,6,8,11					
LED INDICATOR						
AC	Light up when AC power on					
DC	Light up at normal DC output and battery backup mode					
BATT	Light up at battery is charging					
OTHERS						
Dimensions (mm)	123(W) × 50 (H) × 95(L)					
Weight (kg)	0.3 approx					