



Intelligent Power Distribution Unit

PMAC Series iPDU for Datacenter

STANDARD FEATURES:

- ◆ Single or Double incoming power
- ◆ 21 ~ 168 Branch circuit power feeder
- ◆ High-reliability power distribution foundation
- ◆ Advanced BCPM Power Monitoring solution
- ◆ 7" Color LCD Touch screen HMI
- ◆ Low-low and high-high current alarm and log
- ◆ Monitored SPD surge protection device
- ◆ Modbus_RTU RS485 interface standard

OPTION FEATURES :

- ◆ Woehner Hot-plug busway system
- ◆ K-factor isolation Transformer (K13,K20)
- ◆ Branch breaker status monitor
- ◆ Static Transfer Switch (STS)
- ◆ Accept function customization



GENERAL:

PMAC series floor standing iPDU are manufactured to support both raised and non-raised floor environments. iPDU sizes range from 21 to 168 MCB's within a HMI monitor. All of our iPDU are built with **PILOT®** Branch circuit power meter technology for both local and remote viewing of real time power condition and energy consumption. These are essential when determining data centre Power Usage Effectiveness (PUE) calculations.

● **Affordable & Reliable Power Transmission and Distribution Centre.**

The quality of build and product is fundamental to the under-lying reliability of any datacenter solution. This is why **PILOT®** only specifies components from industry leading manufacturers, including ABB, SIEMENS, Woehner and OBO for our panel board equipment.

● **Main Breaker and Branch Circuit Power Management and Monitor.**

PILOT® Branch circuit power monitor system as one of the most advanced PDU monitor technology, it can monitor incoming and branch feeder current, voltage, frequency, power, energy, unbalance, THD and Power factor. It can supply Class 1 energy measure for server rack kWh billing.

The monitor system with 7" Real time communication and user-friendly LCD touch screen. By Modbus_RTU communication, It is easy integration of data transmission with other commonly use building management system, power and environmental monitor system and DCIM.

● **High K-factor isolation transformer and grounding.**

After installed high K-factor isolation transformer, the iPDU can suitable with all type of non-linear loads in data center. The computer grade grounding, single point safety bar and double size Neutral as a basic electrical structure to follow datacentre requirement.



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Technical Specification:

Order Code: PMAC – IPDU – M XXX – K YY

XXX : Power Capacity = (from 75KVA to 500KVA)

KYY : K-Factor Transformer = (K13, K20)

Model		PMAC-IPDU-M XXX	PMAC – IPDU – M XXX – K YY With K-factor Transformer
Incoming	Rated Capacity	75 ~ 500 KVA	
	Input Voltage	380 ~ 415Vac, 50Hz / 60Hz	
	Voltage Range	+/- 15%	
	No of Phase	Three phase + Ground / Three phase + Ground (+ Neutral)	
	Power factor	0.7 ~ 0.99	
	Input Current	From 100A ~ 600A, as iPDU capacity inquire.	
	Input MCCB	ABB MCCB, according to iPDU rate capacity.	
Output Branch circuit	No. of poles	From 21 poles to 168 poles	
	Output MCB	ABB MCB : 16A, 32A,63A, Option RCBO.	
	Output voltage	380/220Vac , 400/230Vac, 415/240Vac, other voltage customizable	
	No of Phase	Single phase / three phase , Line + Ground (+ Neutral) system	
	Output wave	Sine wave, 50Hz / 60Hz	
	Efficiency	99%	96% ~ 98%
Insolation Transformer	K-factor	--	K13 or K20
	Type	--	Dry , H Class, Copper
	Monitor	--	Temperature and overload
Power Monitor	Hardware	PILOT® PMAC Branch Circuit Power monitor	
	Measure	I, U, P, Q, PF, Hz, kWh, kvarh, THD,Demand (I,P) ,Max I,Max demand, I unbalance. (Option leakage current of incoming circuit)	
	Active Energy accuracy	Incoming : Class 1 , Output: Class 1	
	Status monitor	Incoming breaker, SPD, (Option branch circuit breaker status)	
	Pre - Alarm	Voltage, current, current unbalance, leakage current. Each branch current	
	HMI	7" Color LCD Touch Screen, 2000 alarm records	
	Communication	Standard RS485, Mobus_RTU / Option RJ45 Ethernet converter	
Dimensions and Color		Standard: W x H x D(mm) : 1000 x 2000 x1100, Black or Gray , Other sizes or color can be customized	
Operating Environment	Temperature, Humidity and Altitude	0 ~ 45°C, 0% ~ 95% Non condensing, Less 2000m.	
	Noise interference	<55db	
	Ventilation	Convection cooling fan	
Standard	Quality assurance	ISO 9001 Certificate	
	Power panel	Panel : IEC60947-2 , Measure: IEC61053-21	