

PDU - LOCALLY MONITORED & REMOTE MONITORED



Norden Power Distribution Units are designed to improve uptime and energy efficiency while reducing operating costs. Norden's unique hot-swap design allows quick, easy replacement of PDU modules without affecting the power supply to equipment and is also upgradable.

COMPLIANCE

EN55022, EN61000, EN55035, IEC/EN 60950, IEC/EN62368, RoHS 2.0

FEATURES

- Compact body design
- Accurate power metering capability
- Cable retention prevents downtime caused by accidental cable fallout.
- The Controller can be replaced or upgraded without shutting down the power to the rack.
- Upgradable & scalable output modules
- High-density power distribution supports up to 42 IEC outlets.

DESIGN & MATERIALS

Material of Construction	Aluminium alloy
Available Outlet Type	IEC C13 ,C19, Shuko(CEE 7/3) , CEE 7/5 , UK , NEMA & Universal
Outlet Combination & Quantity	Customizable
Outlet Locking	Yes , Available in C13 & C19 upon request
Power Input Style	Left-end single input style.
Installation Style	Vertical & Horizontal (Horizontal available Up to 12 Way)
Mounting Style	Side brackets mounting (Horizontal) / Rear button mounting (Vertical)
Lead Length	1.8 m, 3 m, 5 m (other cable length available on request)
Product Dimension & Weight	It keeps on varying according to PDU Customization

PDU - LOCALLY MONITORED & REMOTE MONITORED

ELECTRICAL PARAMETERS

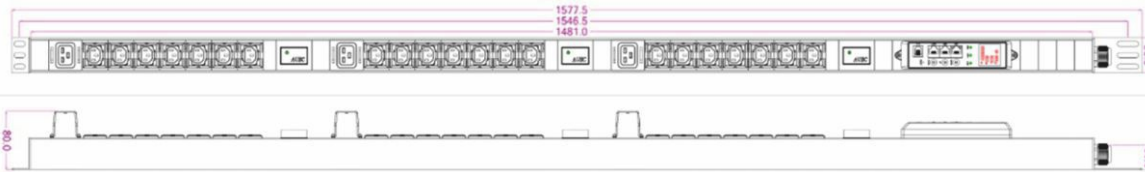
Phase	Single Phase /Three Phase
Plug Type	IEC 60309 16A(2P+E), IEC 60309 32A(3P+N+E) , UK
Input Nominal Voltage	230VAC (L-N), 400 VAC (L1-L2-L3)
Output Nominal Voltage	230VAC
Metering Accuracy	+/- 1%
Maximum Load Current Available	13A / 16A / 32A
Input Frequency	50 or 60 Hz
Max Power Capacity	22kW
Surge Protector	Yes, (Optional)
Circuit Overload Protection (Breaker)	Yes (Air Circuit Breaker) [3 x 32A : 6 x 16A 1 Pole Air Circuit Breaker, 32A : 2 x 16A 1 Pole Air Circuit Breaker]
Operating Relative Humidity	5% ~ 95%
Operating Temperature	-10° C to +45° C

TECHNICAL SPECIFICATION

PARAMETERS	NIPDU-BM SERIES	NIPDU-MP SERIES
Hot Swap Controller	Yes	Yes
Function Level	Input metering only (Local Monitoring)	Input metering only (Remote Monitoring)
Breaker Status Monitoring	Not Supported	Yes
Monitoring Ability	Phase level	Phase level
Parameters measured	Voltage (V), Current (A), Active Power (kW), Energy (kWh)	Voltage (V), Current (A), Active Power (kW), Apparent Power (kVA), Energy (kWh), Power Factor, , Frequency(Hz)
Display Type	LCD display (V,A,KW,KWH)	LCD display (V,A,KW,KWH)
Display Size	1.44"	1.44"
Ethernet Port	Not Supported	100Mbps
RS-485 Interface	Not Supported	2
Temp/Humidity Port	Not Supported	1
Sensor Box Extension	Not Supported	Not Supported
Firmware OS	Not Supported	Free RTOS V10
Web Access	Not Supported	Http/Https
IP-Mode	Not Supported	Static (as default) /DHCP
SNMP Supported	Not Supported	V1/V2c/V3
Serial Access	Not Supported	Modbus-RTU
Daisy-Chain	Not Supported	1 Master 3 Slaves Maximum
Alerts	Not Supported	Voltage, Current, (Temperature, Humidity optional)
Services	Not Supported	TFTP, SMTP
Authentication(Radius,LDAP etc.)	Not Supported	Not Supported
Historical Data Recording	Not Supported	Not Supported
Data Graphing	Not Supported	Not Supported
System Log	Not Supported	Not Supported
Syslog	Not Supported	Not Supported

PDU - LOCALLY MONITORED & REMOTE MONITORED

Drawing



* Product Drawing & Picture is only for reference. The dimensions will vary according to the Horizontal or Vertical orientation & number of sockets.

HOT - SWAP Controller

NIPDU - MP SERIES:



NIPDU - BM SERIES :



PDU - LOCALLY MONITORED & REMOTE MONITORED

ORDERING GUIDE

IP-PDU	PDU Series	Mounting Type	Socket Combination		Socket Locking C13 & C19	Total Number of Sockets
			Section A	Section B		
NIPDU	B:BM Series (Basic Metered Locally) D:MP Series (Monitored PDU-Remote)	H: Horizontal V: Vertical	AXX: C13 BXX: C19 CXX: CEE 7/3 EXX: UK KXX: CEE 7/5 UXX: Universal MXX: NEMA N00: None	AXX: C13 BXX: C19 CXX: CEE 7/3 EXX: UK KXX: CEE 7/5 UXX: Universal PXX: NEMA N00: None	0: None (No Lock) 1: With Lock-C13 2: With Lock-C19 3: With Lock (C13 & C19)	06: 06 Way 07: 07 Way 08: 08 Way 10: 10 Way 12: 12 Way 16: 16 Way 20: 20 Way 24: 24 Way 30: 30 Way 36: 36 Way 42: 42 Way

Protector	Phase	Plug Type	Current Carrying Capacity	Cable Length	Colour (X)	Socket Colour (Optional)
0: None 1: Surge Protector	2: Single Phase 3: 3-Phase	1: IEC 60309 2: UK (Type G) * UK plug Only Available for Single Phase	1: 13 Amp 2: 16 Amp 4: 32 Amp	0: 1.5 M 1: 1.8 M 2: 3.0 M 3: 5.0 M	BK: Black BL: Blue RD: Red GN: Green	

- * Outlet Locking available in C13 & C19 only upon request.
- * For a better understanding of the PDU Series follow NIPDU Technical Details.
- * The maximum number of sockets that horizontal can support is 12.
- * C13 and C19 Socket Outlet Locking is only available up to a 24-way PDU.

Part No & Description (For Example)

BM series NIPDU:

NIPDU	B	V	A20	B04	3	24	1	3	1	4	2	BK
-------	---	---	-----	-----	---	----	---	---	---	---	---	----

Description: 24 Way (20 XC13 with lock + 04 XC19 with lock), 32 Amp, Surge Protector, IEC 60309 3P + N + E Plug, Locally Monitored 3-Phase PDU with LCD Display, 3 Meter Cable Length Vertical Installation

MP series NIPDU:

NIPDU	D	V	A21	B03	3	24	1	2	1	2	2	BK
-------	---	---	-----	-----	---	----	---	---	---	---	---	----

Description: 24 Way (21 XC13 with lock + 03 XC19 with lock), 16 Amp, Surge Protector, IEC 60309 2P + E Plug, Remote Input Monitored Single-Phase Intelligent PDU, 3 Meter Cable Length Vertical Installation