



High Current Power Distribution Panel 175A

KT HC-PDP175 (5+5)

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FEATURE SUMMARY

The Kerem Technology High Current Power Distribution Panel 175A (KT HC-PDP175 (5+5)) provides protected power distribution at up to 175A total per Rack Feed side with basic supervisory functions. Functionality is summarised below.

- Flexible mounting options for installation in 19” and 21” racks with mounting rails in front, mid-depth or rear-mount positions
- Distribution of power from the site power system via two independent Rack Feed supplies to circuit-breaker protected subrack load feeds
- Connectorised Rack Feed supply inputs for ease of installation
- High-power subrack load capability - each Rack Feed side has 5 outputs - each rated at 70A max.
- Plug-in load circuit breakers, swappable without de-powering the HC-PDP
- CBs available in single-pole 0.1A to 70A for each load positions
- Circuit breakers have rocker style actuator that is flush when turned on to avoid accidental turn-off
- Circuit breaker rocker position visually indicates operational status – mid-position indicates tripped, fully out indicates ‘off’
- Lever operated Cage Clamp terminals on Subrack feed connections for cables from 1mm² to 16mm²
- Overload protected, redundant auxiliary alarm power supply up to 100mA for external equipment
- Supervision of CB trip, Rack Feed input under-voltage and auxiliary power supply fail with LED alarm display and output via NO & NC relay contacts to earth, extended to IDT field
- Individual circuit breaker trip alarm via NO or NC auxiliary contacts to earth, extended to IDT field
- Visual indication of Urgent alarm and Rack Feed ‘power supply normal’ status via large red and green LEDs on the front panel
- Visual indication of individual Rack Feed supply under-voltage via red LEDs on the Alarm Board
- Subrack load cable and alarm cable entry from either side, and a clear and uncluttered top panel with tie points for cable management
- Field-replaceable, hot-swappable alarm & display boards and auxiliary power supply board
- Front cover supplied with plastic pockets for circuit breaker labels

SPECIFICATIONS

Specification		Notes
Nominal Supply Voltage	48Vdc positive earth	
Number of Supply Channel Sides	2	Rack Feed 1 (RF1) Rack Feed 2 (RF2)
Maximum Current per Supply Channel Side	175A maximum continuous	
Input Power Connections	Anderson SB175 connectors on 50mm ² X-HF-110 insulated cable tails	
Input Voltage Monitoring	Detection of under-voltage generates alarm condition. Front panel green 'NML' LED indicates normal supply voltage.	Nominal threshold 36V Guaranteed alarm on at 30V Guaranteed alarm clear at 42V (Monitoring can be disabled if required.)
Load Feeds & Current Ratings	5 load feeds each for RF1 & RF2	Each feed up to 70A max. for a total of up to 175A per Rack Feed
Load Connections	Lever operated Cage Clamp Terminals for cables from 1mm ² to 16mm ²	
Load Circuit Breaker Type	AIRPAX Series LMLBXX1 plug-in magnetic circuit breakers with rocker actuator and SPDT mid-trip contacts	
Load Circuit Breaker Ratings	0.1A ~ 70A for all CB positions	
Circuit Breaker Trip Indication	Visual via CB rocker actuator & LED indicator. Electrical via SPDT contact on CB. Earth output via HC-PDP IDT field.	For all CBs, NO & NC sides are both output via IDT field.
Alarm Visual Indication	Large red LED on display board is lit for CB trip, input under-voltage detected, or alarm supply fail.	
Station Alarm Output	Earth extended via NO & NC outputs on IDT field for CB trip, input under-voltage detected, or alarm supply fail.	Activates in conjunction with the 'U' LED
Auxiliary (Alarm) Power Supply	-48V at 0.1A max. available via IDT field S- & S+ terminals. Sourced from both input supplies and protected by PTC circuit.	Slide switch provided to turn off auxiliary supply if required. Pushbutton provided to reset a 'tripped' PTC circuit.
Auxiliary Power Supply Fail Alarm	Earth extended via NO & NC outputs on IDT field for failure of auxiliary power supply.	Failure of auxiliary supply may be due to overload trip of the PTC protective device or loss of power to the PDP.
Front Panel LEDs	'U' red LED Urgent alarm indicator for supply under-voltage or CB trip. 'NML' green LED supply voltage normal indicator.	
saAAlarm Board LEDs	RF1 under-voltage indicator RF2 under-voltage indicator	Small red LEDs operate if monitoring is enabled
Operating Temperature Range	-10 ~ 60°C	
Body Dimensions	Height 135mm Width 435mm (body only) Depth 208mm	
Mounting Arrangements	21" 515mm mounting centres 19" 465mm mounting centres Four (4) depth positions on side panels for mounting brackets	
Weight	4.3 Kg	Without Circuit Breakers fitted

ENQUIRIES

For further information regarding technical aspects, order enquires, or to place an order, please contact Kerem Technology:

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