

DAS-CC-18/1-EU



Wall mounted/ Mechanical interlock Power unit range



Typical Mining application



Power Unit with plug



Power Unit

INTRODUCTION

The Cavotec Power Units are designed for fast and easy use in harsh conditions over many years with minimal downtime or service requirements. Only high quality components are used and equipped with a Cavotec Push & Pull socket that allows quick connect and disconnect of the plug by operating the Push & Pull handle. The external handle on the cabinet door provides mechanical interlocking that protects against accidentally touching or disconnecting a live socket.

The Power Unit is used for power supply applications in tough environments such a boomers and other equipment in mines or in tunnel construction, cranes in ports, or for various applications in power plants such as transformer oil filtration, etc.

PRODUCT FEATURES

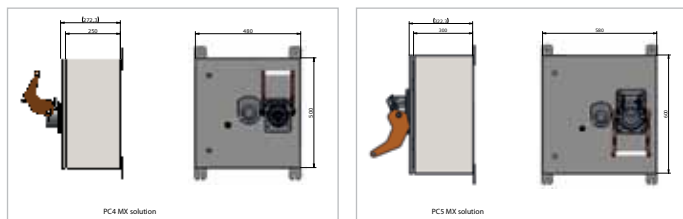
- Protection class for connected plug and socket, or plug or socket with cover closed: IP66
- Standard ambient temperature: -25°C to +70°C (-13°F to + 158°F)
- Socket with integrated cover operated by the push & pull arms
- Socket housing material: Marine grade aluminium ISO 3522
- Push & Pull arm material: Bronze ISO 1338:1977
- All contacts using Cavotec MWT system
- Separate cable terminals allowing fast and easy exchange of contacts
- Cable terminals for crimping with hexagonal crimping tool only
- Contacts and cable terminal material: silver plated brass
- Standard insulator material: injection molded PPO
- All hardware in stainless steel
- High quality gaskets and sealings with a minimum life span of 10 years
- External handle on the cabinet door to operate the mechanical interlock.
- Connection to terminal ground on mounting plate.
- Label with serial number placed by socket
- Wall mounted
- IP 66
- PC4 Cabinet size: 480x500x250mm²
- PC5 Cabinet size: 580x600x300mm²
- Cabinet material: 2mm stainless acid proof steel

POWER UNITS RANGE

Nr of Pins (P&E-Pilot)	MCCB Size/ Internal cabling	Max Amp	Cabinet Material	690V Female Socket	690V Male Socket	1000V Female Socket	1000V Male Socket
4+2	160A/50mm ²	160A	2mm Stainless	PC4-MX04-0562	PC4-NX04-0562	PC4-MX04-0592	PC4-NX04-0592
4+2	200A/70mm ²	200A	2mm Stainless	PC4-MX04-0762	PC4-NX04-0762	PC4-MX04-0792	PC4-NX04-0792
4+2	250A/95mm ²	250A	2mm Stainless	PC5-MX04-0962	PC5-NX04-0962	PC5-MX04-0992	PC5-NX04-0992
4+2	400A/120mm ²	400A	2mm Stainless	PC5-MX04-1262	PC5-NX04-1262	PC5-MX04-1292	PC5-NX04-1292
5+2	125A/35mm ²	125A	2mm Stainless	PC4-MX05-0362	PC4-NX05-0362	PC4-MX05-0392	PC4-NX05-0392
5+2	160A/50mm ²	160A	2mm Stainless	PC4-MX05-0562	PC4-NX05-0562	PC4-MX05-0592	PC4-NX05-0592
5+2	250A/95mm ²	250A	2mm Stainless	PC5-MX05-9562	PC5-NX05-9562	PC5-MX05-9592	PC5-NX05-9592
5+2	400A/120mm ²	320A	2mm Stainless	PC5-MX05-1262	PC5-NX05-1262	PC5-MX05-1292	PC5-NX05-1292

CABLE GLAND CODE

Cable Gland	
Bottom mounted	Top mounted
/G (Garo 28-60mm cable Ø)	/GT (Garo 28-60mm cable Ø)
/M5 (M50 28-38mm cable Ø)	/M5T (M50 28-38mm cable Ø)
/M6 (M63 37-44mm cable Ø)	/M6T (M63 37-44mm cable Ø)
/M7 (M75 40-58mm cable Ø)	/M7T (M75 40-58mm cable Ø)



OPTIONAL FEATURES

- Self regulating heating cable
- Control lamps in red, green, yellow or blue to indicate power on, power off, MCCB trip or other events
- Pressure valve and handle protection for mine blasts





















POWER UNIT EXAMPLE

- 690V
 - 400A
 - 2mm Stainless Steel
 - Cabinet size 580x600x300mm
 - X5 Female socket Push&Pull
 - Cable Gland: Garo, Bottom mounted
 - IP66
- Article nr. PC5-MX05-1262/G
Please contact your local Cavotec sales office for quotation



POWER CONNECTORS PRODUCT RANGE

Size	Connection type	Model name	Keying position	Accessories	Certifications	1-pole	3-pole	4-pole			5-pole	8-pole	13-pole	18-pole	25-pole	24, 30 & 37-pole	50-pole				
PC1	Screw Ring	S1	12								40A 690V 4mm ²	20A 415V 2,5mm ²	10A 230V 1,5mm ²	10A 230V 1,5mm ²							
	Screw Ring	S1	2, 4, 6, 8, 10, 12		ATEX & IECEx 						30A 690V 4mm ²	20A* 415V* 2,5mm ²	10A* 230V* 1,5mm ²	10A* 230V* 1,5mm ²							
PC2	Push&Pull	X2	2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Insulator keying: 1-11	Low interlocking (PC2-VL) Wall bracket Screw terminals		660A 690V 300mm ²	250A 690V 70mm ²	200A 690V 50mm ²			200A 415V 50mm ²			40A 500V 4mm ²	40A 50V 4mm ²						
	Bayonet	B2	Double keying 1-11 55 options		ATEX & IECEx 	660A 690V 300mm ²	250A 690V 70mm ²	200A 690V 50mm ²			200A 415V 50mm ²			40A 500V 4mm ²	40A 50V 4mm ²						
PC3	Eye Bolt	K3						170A 1,1kV 50mm ²													
PC4	Push&Pull	X4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	External FO 6ch Screw terminals				250A 1,1kV 70mm ²			200A 1,1kV 70mm ²					40A 500V 4mm ²					
	Screw Ring	S4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	Short bell				250A 1,1kV 70mm ²			200A 1,1kV 70mm ²										
	Eye Bolt	K4						250A 1,1kV 70mm ²													
PC5	Push&Pull	X5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	External FO 12ch Internal FO 8ch Screw terminals Kirk Key interlock Wall bracket				420A 1,1kV 185mm ² Internal fiber optic	350A 7,2kV 150mm ² 								40A 500V 4mm ²				
	Screw Ring	S5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	Internal FO 8ch Screw terminals				420A 1,1kV 185mm ² Internal fiber optic	350A 7,2kV 150mm ²		350A 1,1kV 185mm ²										
PC6	Push&Pull	X6	6.12	External FO 18ch Internal FO 12ch Screw terminals Kirk Key interlock Wall bracket				660A 1,1kV 300mm ² Internal fiber optic	480A 7,2kV 240mm ² Internal fiber optic	500A 12kV 185mm ²	480A 1,1kV 300mm ²										
	Screw Ring	S6	6.12					660A 1,1kV 300mm ²			660A 1,1kV 300mm ²										
PC7	Eye Bolt	K7						400A 8kV 185mm ²													
PC8	Eye Bolt	K8						440A 15kV 120mm ²													
PC9	Eye Bolt	K9						440A 25kV 150mm ²													

*Available Q2 2015