

### Power It LV MCC (Motor Control Centr) – PiPS-MCC Series



#### Product Information

*Power It* Power Enclosure are used in industrial and commercial applications, whether for low voltage. They are composed of switching equipment, including switches, fuses, circuit breakers, control panels, isolators, transformers, relays, and other associated tools.

*Power It* low voltage motor control center is designed and manufactured for quality power systems such as used in mining plants, oil & gas and industrial buildings with high performance and suitable high quality products IEC 61439-1&-2, so it can be used in all types of industrial fields. producted are two types fix and withdrawable.

#### Features

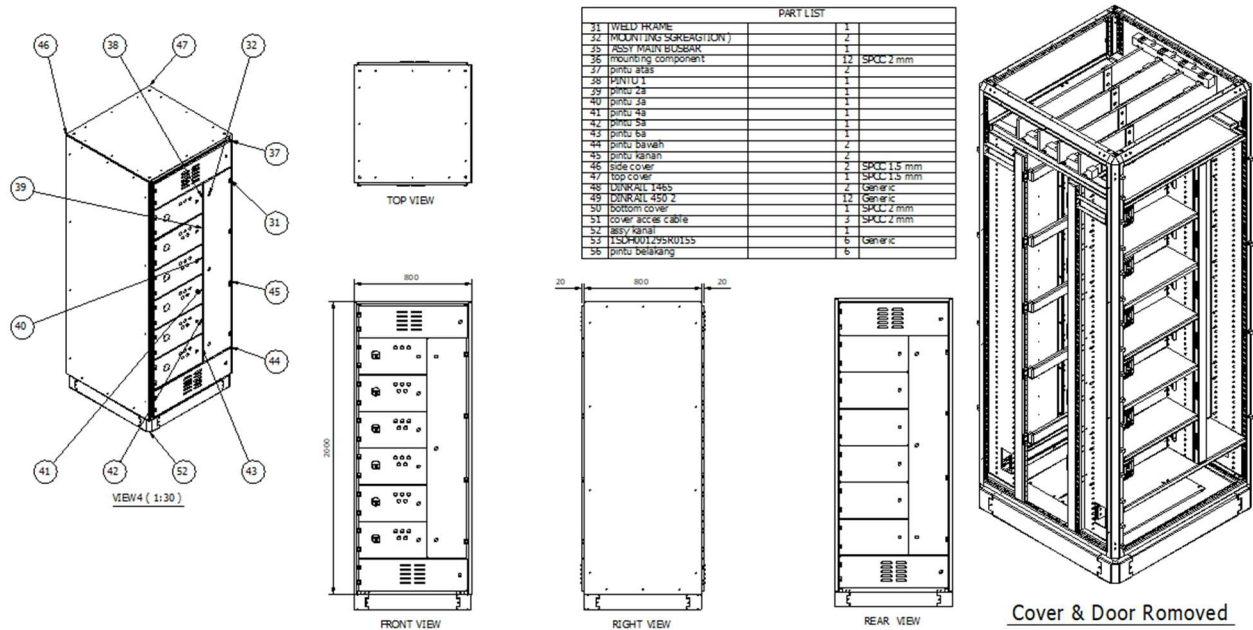
- Short circuit performance able to achieve up to 100kA for 1 second.
- Use of insulated copper busbars with a minimum purity of 99.90; prevents risk of short-circuit (Compliant to IEC 61439)
- Up to Form 4b form of internal separation.
- Ingress Protection IP43 up to IP54 (Compliant to IEC 60529)
- Compact and flexible modular design conserves maximum space
- Customisable to special dimensions according to customer requirements, height can be adjusted by 50 mm pitch.

- Compliant to IEC standards 61439-1, -2; designed to meet local technical standards, practices and requirements.
- High forming of frame structure enclosures greater mechanical strength and toughness.
- The frame body requires a welding process for strength and rigid construction, the interior and cover are connected with bolts and nuts, making it easier to disassemble and assemble.
- used naturally ventilated, option to insert additional fans for greater heat dissipation.
- Fully quality internal inspection and quality assurance before delivery.

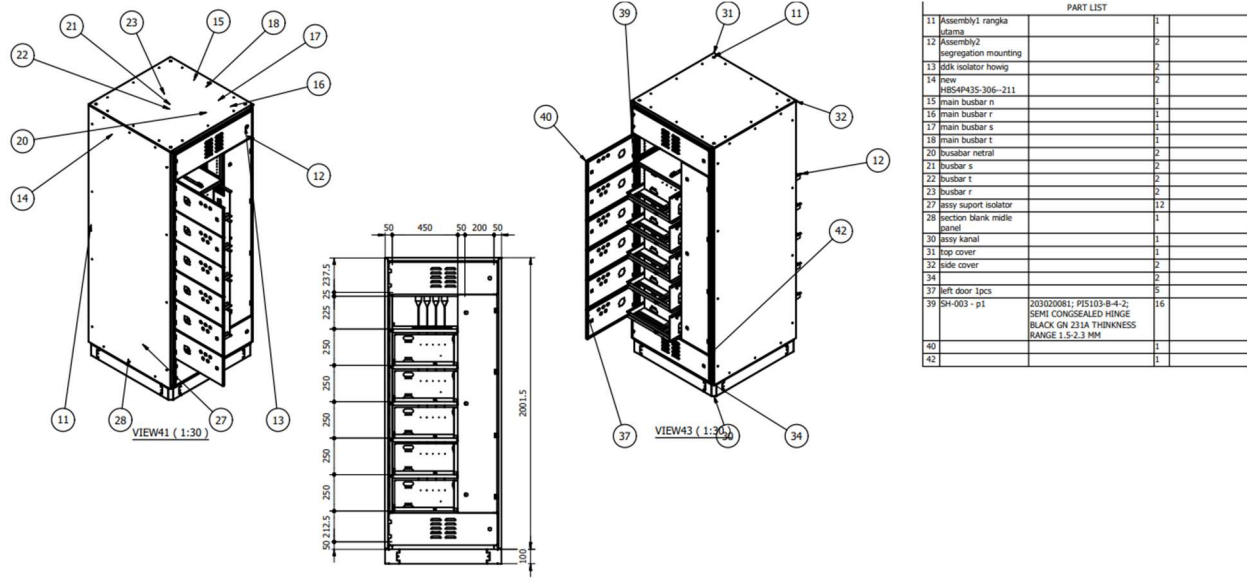
### Technical Specifications

Specifications	Main / Incoming			Feeder MCC
	Below 4000A	4000A	Above 5000A	Up to 2000A
Part Number	PIPS200204	PIPS200404	PIPS200604	PIPM200204
Height (mm) W/O Plint (100)	2000			2000
Width (mm)	800	1000	1200	800
Depth (mm)	1000 / 1200			800 / 1000
Material	Premium grade Cold rolled steel sheet (Spcc), High grade Galvanized / Galvalum / Stainless Steel			
Thickness	1.5 ~ 2 mm			
weight (Empty - approx)	300 Kg	350 Kg	400 Kg	300 Kg
Pretreatment Process	Five stage iron-phosphate pretreatment, tested to 480 hours salt spray According to ASTM B117; ASTM D 1654			
Painting of all parts	Powder coated (Ral-7032/Dark grey; Ral-7035/Light grey); Standard zones C3M up to C5M, conforming ISO 12944-6			
IP degree of protection	Indoor :IP43; Outdoor: up to IP54, conforming IEC 60529			
IK degree of protection	IK10, conforming IEC 62262			
Cable Entry	Top and Bottom ( Removable top & bottom panel)			
Door sealing	Polyurethane Gasket Foam			
Smart Features	Integrated with the IoT or intelligent monitoring systems			

### Construction Drawing Fix type



### Construction Drawing Withdrawable type



### Standard Form - IEC 61439

Each Form corresponds to an internal busbar, functional unit and terminal, each defined as:

- Busbar - a low impedance conductor to which several electrical circuits can be connected
  - o Main busbar - a busbar to which one or more distribution busbars, incoming units, or outgoing units can be connected
  - o Distribution busbars - busbars in one section connected to the main busbar from which incoming or outgoing units can be connected
- Functional Unit - part of an assembly consisting of elements and mechanics that contribute to providing a common function
  - o Entry unit - a functional unit that inputs energy into the assembly
  - o Outgoing unit - a functional unit that supplies energy to the outgoing circuit
- Terminal - the part of the assembly that provides incoming and outgoing cable and busbar connections

