

**POINTS BETWEEN THE MANUFACTURER (P&V PANELS)  
AND THE USER THAT NEED AN AGREEMENT.**

**The requirements for the standard IEC61439 are mostly listed in the specifications of the customer:**

Standard  
 Rated insulation voltage (Ui)  
 Impulse withstand voltage (Uimp)  
 Overvoltage Category (OVC)  
 Frequency  
 Altitude  
 Maximum relative humidity  
 Ambient air temperature  
 Type of panel: material  
 Type of panel: color  
 IP-degree: intern  
 IP-degree: extern  
 Location of the panel  
 External mechanical Impact (IK)  
 UV-resistance  
 Pollution degree  
 Internal separation  
 Cable glands  
 Corrosion resistance  
 Cascading  
 Selectivity  
 Rated diversity factor (RDF)  
 Circuit breakers characteristics trip curve  
 Wiring  
 Color code: power  
 Color code: measurement (analog)  
 Color code: control: 230V  
 Color code: control: 24VAC  
 Color code: control: 24VDC: -  
 Color code: control: 24VDC: +  
 Color code: current transformer  
 Color code: external power supply  
 Megger Insulation test  
 Dielectric Withstanding Voltage test  
 Packing details  
 Delivery details

**If the customer does not specify these requirements, P&V Panels uses following criteria**

IEC61439  
 450Vac  
 4kV  
 No surge arrester foreseen  
 50Hz  
 ≤ 2000 m.  
 50% at 40°C  
 35°C  
 Sheet steel  
 Standard color supplier  
 IPXX-B  
 IP20  
 Inside  
 IK 07  
 Not applicable panel inside  
 3  
 1  
 No  
 Weight A  
 No  
 No  
 0,6  
 According to specifications manufacturer  
 H05/H07 V2K  
 Black / Blue  
 Not protected / not covered  
 Red  
 Red  
 Dark blue  
 Dark blue  
 Brown  
 Orange  
 Panels < 250A  
 Panels ≥ 250A  
 Cardboard & plastic, disposable packing  
 Assembled

