

Control Feature Comparison Chart

Control Feature	Cooper Power Systems CL-6A	Siemens MJ-X ^L	Beckwith M-2001B General Electric GE-2011	ICMI UVR-1
Regulator Control				
Sequential Mode	•	•	•	•
Time Integrating Mode	•	•		
Voltage Averaging Mode	•			
Front Panel Operation				
Manual Operation Switches (Lineman's Switches)	•	•	•	•
Full Numeric Keypad	•			
Function Codes	•			
Front Panel Display with Indicators	•	•	•	•
4 X 20 Character Display	•			
Multilingual Display	•			
Three Date Formats	•			
One-Touch Grouped-Data Display: e.g., Metering-PLUS™ Feature	•			
Reverse Power Operation				
Reverse Operation without IDPT	•	•	•	•
Cogeneration Mode	•	•		•
Reactive Bidirectional Mode	•			
Tap-Position Tracking				
Tap-Position Tracking Value Cannot Be "0" When Off Neutral	•	•	•	•
Source Voltage Calculator	•	•	•	•
Voltage Limiting	•	•		•
Operations Counter				
7 Resettable Operations Counters	•	•	•	•
Line Drop Compensation				
Expanded Limits +/-96V	•	•	•	•
Software Position Limiting: e.g., SOFT-ADD-AMP™ Feature	•		•	•
Tap Changer Support (Direct & Spring)				
0.3 Second Tap-Changing; e.g., Quik-Drive™ Feature	•	•	•	•
Resident Competitor Tap-Changer Types	•	•	•	•
Diagnostics and Maintenance				
Duty Cycle Monitor	•			
Preventive Maintenance Tapping; e.g., PMT™ Feature	•			
Tap Position Tracking; e.g., TIME-ON-TAP™ Feature	•			
Tap-to-Neutral	•			
Security Override	•	•	•	•
Voltage Reduction				
Pulse Mode	•	•		•
Metering				
Time-tagged Demand (Forward & Reverse)	•	•	•	•
Minimum & Maximum Demand Values	•	•	•	•
Forward & Reverse Source Voltage Demand	•	•		
Data Profiler				
Configurable Profiler Sample Time Intervals	•	•	•	•
Profiler Expanded (3840 samples of 10 parameters)	•		•	
Alarms				
Configurable Status Alarms (Binary)	•	•	•	•
Configurable Data Alarms (Analog threshold)	•			
Event Recorder	•	•		
Histograms	•			
Local Data Retrieval				
Standard 9 Pin RS-232 Front Port	•	•	•	•
Flash Card	•			
SCADA				
Resident 2179 Communications Protocol	•	•	•	•
Configurable 2179 Communications Protocol	•			
Resident DNP3 Communications Protocol	•	•	•	•
Configurable DNP3 Points Map	•		•	•
Configurable DNP3 Classes	•			•
Configurable DNP3 Unsolicited Reporting	•			
CL-5D or CL-5E Communications Emulation	•			
Programmable I/O (Using logical equations)	•			

CL-Series Control Feature Comparison Chart	CL-2A	CL-4C	CL-5A	CL-5C	CL-5D	CL-5E	CL-6A
Regulator Control Sequential Mode	•	•	•	•	•	•	•
Time Integrating Mode	•	•	•	•	•	•	•
Voltage Averaging Mode	•	•	•	•	•	•	•
Front Panel Operation	•	•	•	•	•	•	•
Manual Operation Switches (Lineman's Switches)	•	•	•	•	•	•	•
Full Numeric Keypad		•	•	•	•	•	•
Function Codes		•	•	•	•	•	•
Front Panel Display with Indicators		•	•	•	•	•	•
4 X 20 Character Display							•
Multilingual Display: English, Spanish, French and Portuguese							•
Three Date Formats							•
Metering-PLUS™ One-Touch Grouped-Data Display Feature							•
Reverse Power Operation		•	•	•	•	•	•
Reverse Operation without IDPT				•	•	•	•
Cogeneration Mode					•	•	•
Reactive Bidirectional Mode					•	•	•
Tap-Position Tracking			•	•	•	•	•
Tap-Position Tracking Value Cannot Be "0" When Off Neutral			•	•	•	•	•
Source Voltage Calculator				•	•	•	•
Voltage Limiting		•	•	•	•	•	•
Operations Counter	•	•	•	•	•	•	•
7 Resettable Operations Counters						•	•
Line Drop Compensation	•	•	•	•	•	•	•
Expanded Limits +/-96V					•	•	•
SOFT-ADD-AMP™ feature						•	•
Tap-Changer Support (Direct & Spring)	•	•	•	•	•	•	•
Quik-Drive™ Tap-Changer					•	•	•
Resident Competitor Tap-Changer Types							•
Diagnostics and Maintenance							•
Duty Cycle Monitor							•
TIME-ON-TAP™ Tap Position Tracking Feature							•
PMT™ Preventive Maintenance Tapping Feature							•
Tap-to-Neutral						•	•
Security Override			•	•	•	•	•
Voltage Reduction		•	•	•	•	•	•
Pulse Mode			•	•	•	•	•
Metering		•	•	•	•	•	•
Time-Tagged Demand (Forward & Reverse)			•	•	•	•	•
Minimum & Maximum Demand Values			•	•	•	•	•
Forward & Reverse Source Voltage Demand							•
Data Profiler			•	•	•	•	•
Configurable Profiler Sample Time Intervals						•	•
Profiler Expanded (3840 samples of 10 parameters)							•
Alarms							•
Configurable Status Alarms (Binary)							•
Configurable Data Alarms (Analog threshold)							•
Event Recorder							•
Histograms							•
Local Data Retrieval	•	•	•	•	•	•	•
Data Reader Compatible		•	•	•	•	•	•
Standard 9-Pin RS-232 Front Port							•
Flash Card							•
SCADA	•	•	•	•	•	•	•
Discrete Auto-Inhibit and Motor Control	•	•	•	•	•	•	•
Digital Communications		•	•	•	•	•	•
Resident 2179 Communications Protocol			•	•	•	•	•
Configurable 2179 Communications Protocol							•
Resident DNP3 Communications Protocol							•
Configurable DNP3 Points Map						•	•
Configurable DNP3 Classes						•	•
Configurable DNP3 Unsolicited Reporting						•	•
CL-5D or CL-5E Communications Emulation							•
Programmable I/O (Using logical equations)							•

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