

WT6000 MFDC

Latest Generation of Resistance Welding Inverters

The WT6000 Medium Frequency DC control powered by GEN6 technology offers flexible intuitive programming for customization of your welding process. Combined with the guidance of built in diagnostic tools, the WT6000 will support process control of your resistance welding application

- Up to 255 Weld Programs
- Multi-Language Programming
- Web Based Interface
- Free Format Programming for Various Applications
- Configurable I/O
- Network Ready (Weld Gateway / RAFT™ Gateway)
- Various I/O Connectivity
 - DIO, Device Net, Ethernet IP, Profinet, Profibus
- Weld Tool Efficiency Monitoring
- Weld Transformer Protection (Flux Control)
- Weld Transformer Diode Failure Detection
- Duty Cycle of Inverter Monitoring
- Laptop or DEP Interface for Programming and Data Acquisition
- Secondary Current & Voltage Monitoring
- Oscilloscope Quality Data Archiving
- 220v-480VAC 50/60hz Mains (600VAC optional)
- Programmable Output Frequency (400-2000 hertz)



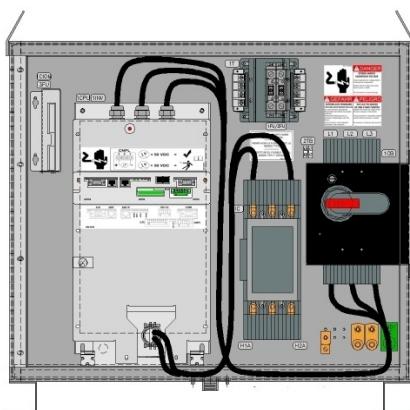
WT6000 MFDC powered by
GEN6 inverter technology

Supported Languages:
English, German, French, Spanish, Portuguese, Chinese, Korean, Polish



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WT6000 Single Pack Designs



WT60TN Top Mount MFDC

- 150 Amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor
- 250VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 Inverter - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Dimensions (610H x 737W x 432D (mm)) (24"H x29"W x17"D)
- Device-Net, EIP, ProfiBus or Profinet Connectivity
- Tip Dress Control & Monitor - RAFT Feature (Optional)

WT60TN Top mount

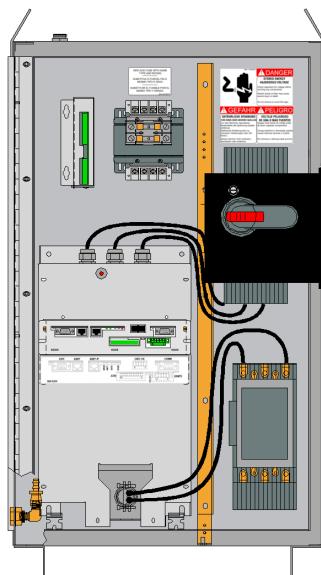
WT60MN MiniPak MFDC

- 100 Amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 3 Isolation Contactor
- 250VA Control Transformer
- GEN6 Inverter Rated 400 Amp Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Dimensions (300H x 670W x 505D (mm)) (12"H x 26.5"W x 20"D)
- Device-Net, EIP, ProfiBus, or Profinet Connectivity
- RAFT Feature (Optional)



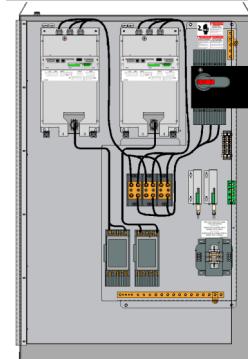
WT600N-A1 Stand MFDC

- 150 amp, 3-Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor
- 250VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 Inverter - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Dimensions (950H x 510W x 410D (mm)) (37.4"H x 20"W x 16"D)
- Device-Net, EIP or Discrete I/O connectivity
- Tip Dress Control & Monitor - RAFT Feature (Optional)



WT600N-A1 Stand

WT6000 Multi-Pack Designs



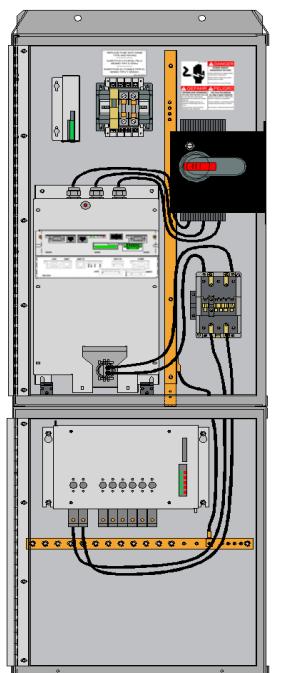
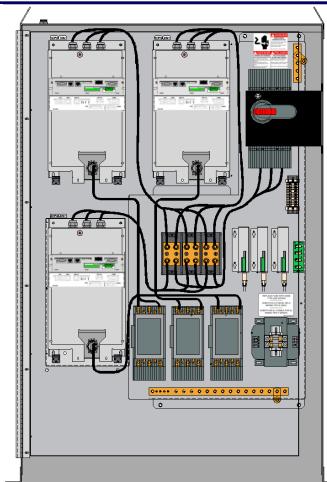
WT600N-A2 Dual Pack MFDC

- 250 amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Two Size 4 Isolation Contactors
- 500VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- Two GEN6 Inverters - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Two Integrated 6000 Processor Modules
- Dimensions (1500H x 990W x 550D (mm)) (59"Hx39"Wx21.6"D)
- Device-Net, EIP, ProfiBus or Profinet Connectivity

WT600N-A2 Dual Pack

WT600N-A3 Tri-Pack

- 400 amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Three Size 4 Isolation Contactors
- 600VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- Three GEN6 inverters - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Three Integrated 6000 Processor Modules
- Dimensions (1500H x 990W x 550D (mm)) (59"H x 39"W x 21.6"D)
- Device-Net, EIP, ProfiBus or Profinet Connectivity

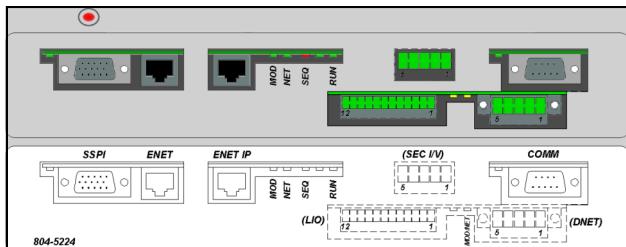


WT600N-A13 Three Cascade MFDC

- 150 Amp, 3 Pole Circuit Breaker with Magnetic, Thermal, and External Shunt Trip
- Size 4 Isolation Contactor
- 250VA Control Transformer
- CIOM for Shunt Trip, Isolation Contactor, Control Stop
- GEN6 Inverter - 600/500 Amp - Water/Air Cooled @10% Duty Cycle
- Integrated 6000 Processor Module
- Solid state switching for 3 cascade loads
- Dimensions (1500H x 510W x 410D (mm)) (59"H x 20"W x 16"D)
- Device-Net, EIP, ProfiBus or Profinet Connectivity

WT600N-A13 Cascade

WT6000



WT6000 Processor

WT6000 Connectivity

- SSPI port
- Two (2) 100BASE T Ethernet Ports
- Local I/O Port
- Device-Net, EIP, ProfiBus or Profinet Connectivity
- Secondary Current & Voltage Channels
- Serial RS485 Port
- Discrete I/O Options

Power Source	
Voltage:	3-Phase AC 220V - 480V ($\pm 10\%$)
Line Power Frequency:	50/60Hz (Automatic Selection)
Alternate Configuration:	Optional: 575V ($\pm 10\%$)
Output Frequency:	1,000 Hz (Programmable Range = 400Hz - 2,000Hz)
Output Current at 10% Duty Cycle:	600/500 Amps, Water/Air Cooled
Device Type:	IGBT
Power Consumption:	70VA (Idling Condition)
Processor	
Weld Processor:	WT6000 Integrated
I/O Protocol:	Ethernet IP 10/100BASE T
Optional I/O Protocol:	Device Net, DIO, PROFINET, PROFIBUS
Onboard Inputs:	2 x 24VDC
Onboard Outputs:	3 x 120VAC
Number of weld schedules:	255
Number of steppers:	32
Processor Storage Type:	F-RAM (No Battery Required)
Weld Processor Languages:	English, French, German, Spanish, Portuguese, Chinese, Korean, Polish

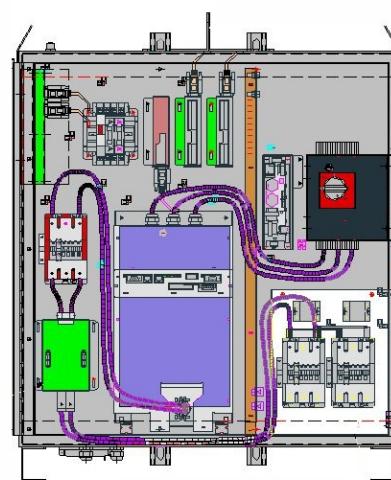
WT6000 Welding Applications

- Multi-Pack Configurations
- Automated Cascade Configurations
- DCIT Gun Station Controls
- Seam Welding
- Robotic Welding
- Projection Welding
- External Control Interfaces (ECI)

Optional Devices

- Data Entry Panels (DEP100,300)
- Weld Interface Laptop Software
- Weld / RAFT Gateway Network Software

Monitoring and Control Functions	
Firing Control:	Fixed Frequency, Pulse Width Modulation
Firing modes:	Primary Constant Current Secondary Constant Current Voltage Control
Primary Current Range:	20A to Rated Current Level
Primary Current Accuracy:	$\pm 1\%$ Setting, $\pm .5\%$ Repeatability
DC Bus Voltage Measurement Accuracy:	$\pm 1\%$ Setting, $\pm .5\%$ Repeatability
Secondary Current Accuracy:	$\pm 2\%$ Setting, $\pm 1\%$ Repeatability
Secondary Voltage Accuracy:	$\pm 3\%$
Secondary Resistive Accuracy:	$\pm 3\%$
MFDC Transformer Flux Protection:	Included
Digital Scope Function:	1 MHz Equivalent Uploads to PC
Duty Cycle Protection:	Inverter and Weld Transformer Duty Cycle
MFDC Weld Transformer Monitoring:	Diode Monitoring



DCIT Gun Station Control with
Ground Safety Monitoring &
10 - 30mA Personnel Protection System

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