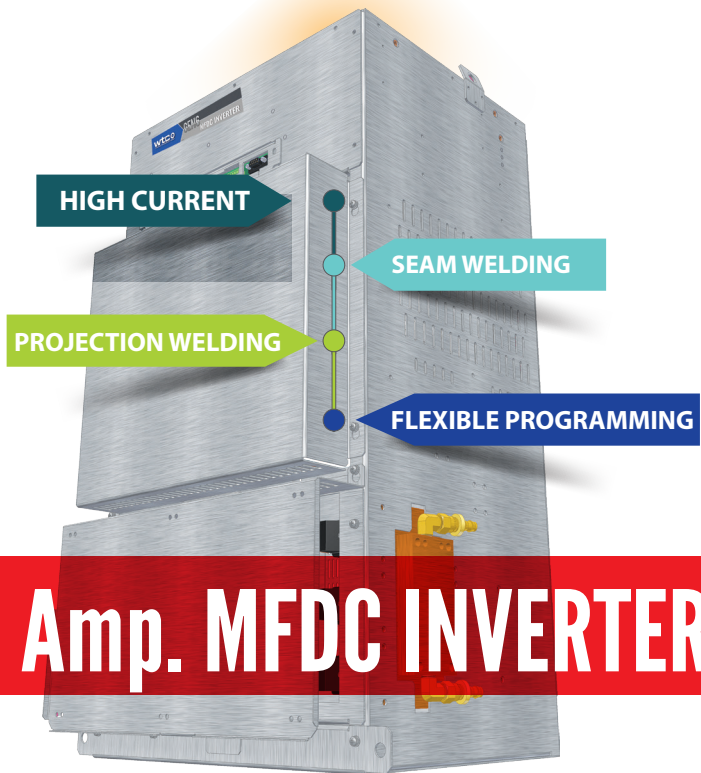


# POWERFUL PRECISION



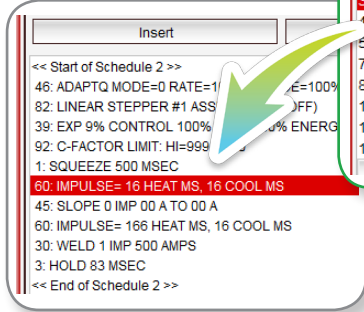
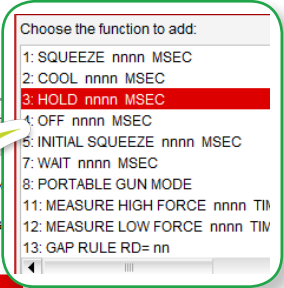
## 2400 Amp. MFDC INVERTER



# PROGRAMMABILITY TOTALLY CUSTOMIZABLE

Programmable weld schedules to tackle all spot, seam, projection and butt welding applications.

Select from 99 functions to create custom weld schedules unique to your application. These functions include weld, impulse, upslope, down slope, post weld, pre-weld etc.



## 255 WELD SCHEDULES

Allows preprogramming of various application needs such as different parts welded on the same machine.

## 400 to 2000 Hz

Programmable output frequencies to complement weld transformers with different frequency designs.



## FAULT and ALERT

Programmable conditions to validate weld integrity. Custom programming mode allows the user to select fault or alert conditions to assist in trouble shooting of a suspect events

# FAST CURRENT RISE TIME

0 -50kA in 0.5 msec.

## POWER SOURCE

Voltage	3-Phase AC 220V-480V (± 10%)
Line Power Frequency	50/60Hz (Automatic Selection)
Alternate Configuration	Optional: 575V (± 10%)
Output Frequency	1,000 Hz (Capable Range = 400Hz - 2,000Hz)
Output Current at 10% Duty Cycle	2400 amps
Output Current at 100% Duty Cycle	759 amps
Device Type	IGBT
Power Consumption	70VA (Idling condition)

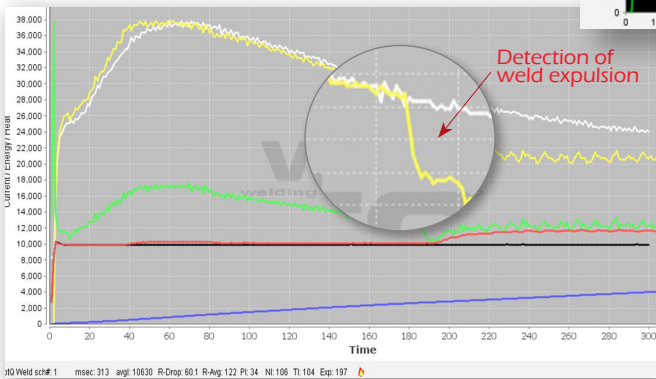
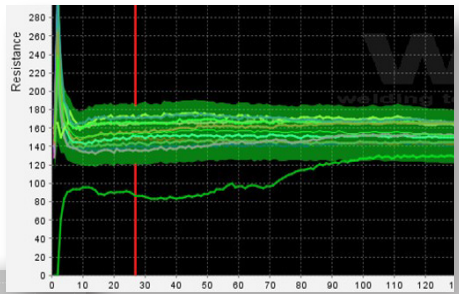
# MULTIPLE I/O CONFIGURATIONS

Select from discrete I/O, DeviceNet, EtherNet/IP, ProfiNet, and Profibus. The WT6000 2400amp comes standard with Ethernet/IP connectivity. Additional I/O can be added at time of order.

## FEEDBACK SMART DATA DRIVEN

Graphical representation of welding data such as current, resistance, heat and force - *SoftQ*

- Tooling Integrity
- Process Integrity
- Nugget Integrity
- Expulsion free reporting



Easily develop comprehensive process resistance envelope and detect any operations that go outside these boundaries. With RAFT Gateway Network software, you can report these excursions by control, by machine, and by part.

# PRECISION TECHNOLOGY

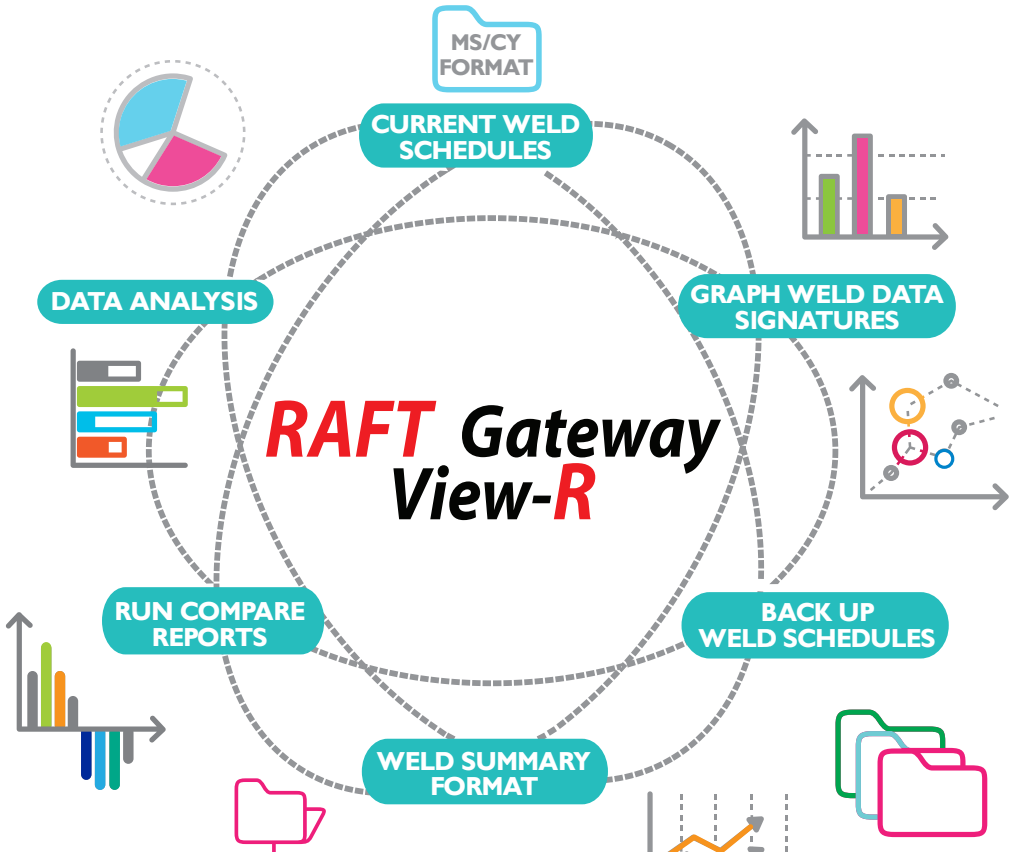
## Graphical Data

### MONITORING AND CONTROL FUNCTIONS

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

# CONNECTIVITY SMART NETWORKS

The **WT6000 2400 amp.** control is compatible with **RAFT** Gateway software and View-*R* products.



## FULLY PROGRAMMABLE

255 customizable weld schedules

### PROCESSOR & FUNCTIONS

Weld Processor:	WT6000
I/O Protocol:	Ethernet IP 10/100 BaseT
Optional I/O Protocol:	DeviceNet, Profibus, Profinet, ECI
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
Discrete I/O (Optional):	16 in / 10 out

# FOR HIGH POWERED APPLICATIONS

## WT6000 - HIGH Current. HIGH Fidelity.



▸ **FAST** current rise time for high current applications.



▸ **TOTAL** programmability of weld schedules for spot, projection and seam welding.



▸ **BUILT-IN** diagnostics for reliable and consistent productivity.



▸ **I/O CONNECTIVITY** for Ethernet/IP, Devicenet, Profibus,, Profinet and Discrete I/O.



▸ **MULTI-LANGUAGE** programming.



▸ **WEB BASED** programming.



▸ Up to **255** totally programmable weld schedules.



▸ Weld tool **EFFICIENCY MONITORING** (C Factor).



▸ Transformer **PROTECTION** (Flux control).



▸ Duty cycle **MONITORING** of inverter and welding transformer.



▸ Programmable **DATA ACQUISITION** (micro-second time base)



▸ Duty cycle monitoring of film capacitor design for **LONGER** inverter life.



▸ Optional force monitoring & **FORGE CONTROL**.

Dimensions (mm):	805H x 460 W x 424 D
Weight:	68Kg (80lbs)
Distance Between Mounting Centers:	350 mm
Water Fittings:	Firtree 3/8 or 10 mm ID Hose
Color:	Silver

# SUPPORTING PRODUCTS



## VIEW-R

VIEW, MODIFY AND PROGRAM REMOTELY

Functions as a command central for plant-wide welding processes. High-speed network computers that collect data and weld signatures to achieve welding integrity. Makes weld controls smarter by removing disturbances, maintaining consistency and minimizing expulsion.

## RAFT GATEWAY

RESISTIVE ADAPTIVE FEEDBACK TECHNOLOGY

Network your inverter welding controls with smart software that allows you to collect welding signatures and maintain your welding database information.



## DEP300

HANDHELD MACHINE INTERFACE

Serial communication and EtherNet enabled human machine interface. Offers the convenience to hook-up to a weld control to view status, program schedules, diagnose errors, and inspect weld data.

## WTC KNOWLEDGE PORTAL

STAY INFORMED & CONNECTED.

WTC customers gain special access to our extensive Knowledge Resource with the latest product documentation, drawings, catalogs, how-to-videos and more.

To get started click on:  
[www.weldtechcorp.com/Login-procedure](http://www.weldtechcorp.com/Login-procedure)



Scan code to get quick access.

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