

PRODUCT SPECSHEET

PRODUCT: ACHAL-CNC

CATEGORY: STATIC VOLTAGE STABILIZER

MODELS: THREE PHASE 17KVA TO 200KVA



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DISCLAIMER: The information provided is for representative purposes only and does not constitute a warranty. Users are responsible for verifying the suitability of the product for their specific applications.

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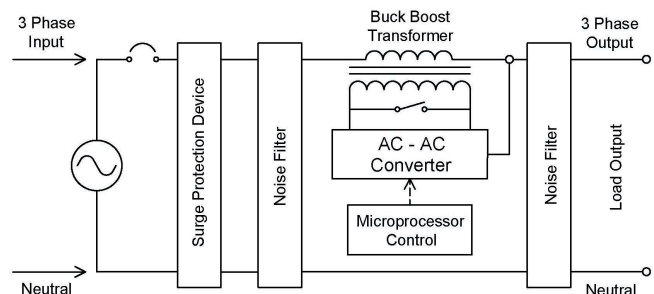
In the demanding world of CNC machining and robotics, maintaining consistent power quality is essential for peak performance and precision. The **TSi ACHAL series** offers a cost-effective solution for static voltage regulation tailored specifically for CNC machine tools & robotics, boasting a response and correction time of just 20 milliseconds. This rapid performance enhances the poor incoming power quality as per ITIC curve standards necessary for peak electronic performance.

The ACHAL Static Voltage Regulator is engineered to safeguard your CNC machines against harmful voltage fluctuations, ensuring uninterrupted operation. By leveraging advanced technology, our product addresses the limitations of traditional voltage stabilization methods, making it the superior choice for precision CNC operations.



How does the TSi ACHAL work?

The system utilizes a high-frequency Insulated Gate Bipolar Transistor (IGBT) driven converter, which intelligently processes incoming AC power by comparing it to a nominal voltage reference. This allows it to swiftly detect any sag or surge events. In response, the system dynamically adds or subtracts a compensating voltage, ensuring a precisely regulated output voltage.



In the event of a fault, the automatic bypass system activates to ensure continued operation. Green LED provides clear visual indication, signaling when the unit is in normal regulating mode.

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Key Features:

- **Superior Voltage Regulation:** ACHAL stabilizes voltage levels, providing reliable power supply while ensuring output voltage remains within $\pm 1\%$ for exceptional regulation.
- **Comprehensive Protection:** The unit offers optimum voltage compensation, sag & swell control within design limits, spike and noise control, safeguarding your machines from various electrical disturbances.
- **Internal Surge Protection:** Built-in surge voltage protection guarantees trouble-free operation, adding an extra layer of safety for your valuable equipment.
- **Enhanced Reliability:** AC input circuit breakers and load overcurrent protection prevent costly damage to your machines, ensuring long-term performance and reliability.
- **Cutting-Edge Technology:** With advanced technology, ACHAL offers real-time voltage correction, ensuring that your CNC machines receive the precise power they need for flawless performance.
- **User-Friendly Interface:** The intuitive display allows for easy monitoring and management of voltage levels, empowering operators with confidence and control.
- **Lightweight and Compact Design:** ACHAL's compact size facilitates simple installation and integration into existing setups without taking up valuable workspace.
- **Rugged Durability:** Constructed to withstand the demands of industrial environments, ACHAL features a robust enclosure that protects internal components from dust, moisture, and other hazards.
- **Static Technology:** This technology ensures quiet operation, high product uptime, and low maintenance requirements, making it an efficient choice for CNC operations.
- **Versatile Options:** Available in both three-phase and single-phase versions to suit a variety of applications.
- **Combo Models:** Smaller capacities are also available with integral step down transformer or isolation transformer, making it compact and space saving.

Note: All the ACHAL models are optionally available with NPS (Neutral Protection System) wherein the equipment works without having the need of an input neutral.

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Benefits:

- **Extended Equipment Lifespan:** By shielding your CNC machines from voltage irregularities, ACHAL maximizes their operational lifespan, reducing the frequency of costly repairs and replacements.
- **Enhanced Precision:** A stable voltage supply minimizes machine errors, resulting in greater accuracy and superior product quality in your machining processes.
- **Increased Productivity:** Tight control over electronic card failures, data corruption, and machine breakdowns leads to higher productivity and lower operating costs, enhancing overall consumer satisfaction.
- **Cost-Effective Solution:** Investing in ACHAL means fewer interruptions and lower maintenance costs, leading to significant long-term savings.

Applications:

ACHAL is ideal for a variety of CNC machines, including:

- CNC Machine Tools
- Plasma Cutters
- Laser Cutters
- 3D Printers
- Industrial Robots

Protect your investment with ACHAL, where stability meets performance!

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The TSi Philosophy - Powering Happiness

TSi Power is a renowned and a trusted name in the power conditioning industry. Since 2011, we have built a workplace that *nurtures* happy employees to *create* great products, in turn, making *happy customers*. Our founders strongly believe and have cultivated this within the company. There's a reason why we have become one of the *world's most trusted* power conditioners.

Powering Happiness is both our business goal and our work culture.

Our Facility in Vadodara, India



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TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-17000

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ELECTRICAL	
Capacity (in KVA)	17
Max. Continuous Spindle Rating (in kW)	5.5/7.5
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	29
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	32 A x 3 phase MCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	24
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 620x620x770
Unpacked Weight (approx.)	80 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-17000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Vertical Type 480x430x1420
Unpacked Weight (approx.)	135 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-17000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Vertical Type 480x430x1420
Unpacked Weight (approx.)	185 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-22000

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ELECTRICAL	
Capacity (in KVA)	22
Max. Continuous Spindle Rating (in kW)	9/11
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	37
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	40 A x 3 phase MCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	31
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 620x620x770
Unpacked Weight (approx.)	106 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-22000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Vertical Type 670x670x850
Unpacked Weight (approx.)	165 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-22000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Vertical Type 898x898x968
Unpacked Weight (approx.)	210 kg

TECHNICAL SPECIFICATION: ACHAL-CNC-400-27000

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ELECTRICAL	
Capacity (in KVA)	27
Max. Continuous Spindle Rating (in kW)	11/15
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	46
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	50 A x 3 phase MCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	38
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 620x620x770
Unpacked Weight (approx.)	112 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-27000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Vertical Type 670x670x850
Unpacked Weight (approx.)	190 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-27000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	285 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-35000

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ELECTRICAL	
Capacity (in KVA)	35
Max. Continuous Spindle Rating (in kW)	15/18.5
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	59
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	63 A x 3 phase MCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	49
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 620x620x770
Unpacked Weight (approx.)	141 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-35000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	230 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-35000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	345 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-44000

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ELECTRICAL	
Capacity (in KVA)	44
Max. Continuous Spindle Rating (in kW)	18/22
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	75
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	80 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	62
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 620x620x770
Unpacked Weight (approx.)	165 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-44000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	260 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-44000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	395 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-52000

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ELECTRICAL	
Capacity (in KVA)	52
Max. Continuous Spindle Rating (in kW)	22/26
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	88
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	100 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	73
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 670x670x850
Unpacked Weight (approx.)	165 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-52000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	345 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-52000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	430 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-65000

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ELECTRICAL	
Capacity (in KVA)	65
Max. Continuous Spindle Rating (in kW)	30/37
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	110
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	125 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	92
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 670x670x850
Unpacked Weight (approx.)	175 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-65000
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	380 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-65000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Vertical Type 990x710x1750
Unpacked Weight (approx.)	495 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-80000

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ELECTRICAL	
Capacity (in KVA)	80
Max. Continuous Spindle Rating (in kW)	37/45
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	136
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	160 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	113
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	260 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-80000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	550 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-80000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	710 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-80000P

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ELECTRICAL	
Capacity (in KVA)	80
Max. Continuous Spindle Rating (in kW)	37/45
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	136
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	160 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	113
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition

Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	420 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-80000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	550 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-80000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	710 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-100000

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ELECTRICAL	
Capacity (in KVA)	100
Max. Continuous Spindle Rating (in kW)	45/55
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	170
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	200 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	141
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	285 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-100000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	620 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-100000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	775 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-100000P

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ELECTRICAL	
Capacity (in KVA)	100
Max. Continuous Spindle Rating (in kW)	45/55
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	170
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	200 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	141
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition

Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	450 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-SDAT-CNC-400-100000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
OPTIONAL (ACHAL + IT)	All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-IT-CNC-400-100000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-130000

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ELECTRICAL	
Capacity (in KVA)	130
Max. Continuous Spindle Rating (in kW)	Multi-Spindle
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	221
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	250 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input wires
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	183
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output wires
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 2004030 powder-coated CRCA cabinets in a sleek teal color

Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition
Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	4 High Quality Castor wheels 2 with brakes
Overall Dimension (approx.)	As per Dimension Diagram of Cubical Type 898x898x968
Unpacked Weight (approx.)	335 kg
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	<i>All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-SDAT-CNC-400-130000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	700 kg
OPTIONAL (ACHAL + IT)	<i>All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.</i>
MODEL	ACHAL-IT-CNC-400-130000
Mounting	Pad mounted
Overall Dimension (approx.)	As per Dimension Diagram of Panel Type 650x1220x2400
Unpacked Weight (approx.)	885 kg

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-130000P

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ELECTRICAL	
Capacity (in KVA)	130
Max. Continuous Spindle Rating (in kW)	Multi-Spindle
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	221
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	250 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	183
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition

Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-SDAT-CNC-400-130000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
OPTIONAL (ACHAL + IT)	All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-IT-CNC-400-130000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-160000P

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ELECTRICAL	
Capacity (in KVA)	160
Max. Continuous Spindle Rating (in kW)	Multi-Spindle
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	272
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	400 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	225
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition

Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-SDAT-CNC-400-160000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
OPTIONAL (ACHAL + IT)	All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-IT-CNC-400-160000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD

TECHNICAL SPECIFICATIONS: ACHAL-CNC-400-200000P

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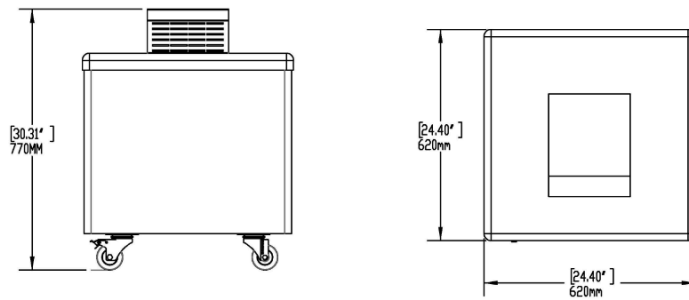
ELECTRICAL	
Capacity (in KVA)	200
Max. Continuous Spindle Rating (in kW)	Multi-Spindle
Load Capacity	Upto 110% for 10 minutes, 125% for 1 minute, 150% for 500 milliseconds
Regulator Engine	IGBT switching, Solid State, PWM regulator
AC INPUT	
Designed Input Voltage Range (V) (Voltage Regulation Accuracy of +/-1%)	340 - 480 (+/- 17% of nominal output voltage)
Max Rated Input Current (A)	340
Overload & Short Circuit Protection (Input Circuit Breaker Rating)	400 A x 3 phase MCCB
Nominal Operating Frequency	47 - 63 Hz
AC Input Connector	L1, L2, L3, Neutral & Ground input BUSBAR
AC OUTPUT	
Nominal Output Voltage (V)	Three phase 410
Efficiency	Typical 96% (under 20 - 80% load condition)
Output Voltage Compensation Range	+/- 1%
Maximum Rated Output Current (A)	282
System Status Indicator	Green LED ON-Normal operation Amber LED ON-Bypass operation Red LED ON-Fault
Output Connector	L1, L2, L3, Neutral & Ground output BUSBAR
Surge Protection	Class II Surge Protection
PHYSICAL	
Cabinet Construction	RAL 7035 light grey powder coated CRCA cabinets
Automatic AC-AC Converter Bypass	Standard, will get activated when there is a fault condition

Cabinet Weather Protection Ratings	IP 20 (for use in protected indoor environments)
Display	Digital output voltage display through selector switch
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
ENVIRONMENTAL	
Cooling Method	Forced air
Operating Temperature Range	0 to + 45 °C
Operating Humidity Range	10 to 90% relative humidity (non-condensing)
Note: The voltage regulation is based on 410V nominal output voltage. This would proportionately change in case nominal output voltage is required to be preset at any other value between 380V-415V.	
OPTIONAL (ACHAL + SDAT)	All ACHAL models can be equipped with an optional step-down transformer, providing a voltage output of 200V/220V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-SDAT-CNC-400-200000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD
OPTIONAL (ACHAL + IT)	All ACHAL models can be equipped with an optional isolation transformer, providing a voltage output of 410/400/380/220V/200V (P-P) through either a single combo unit (as per details below) or separate units.
MODEL	ACHAL-IT-CNC-400-200000
Mounting	Pad mounted
Overall Dimension (approx.)	TBD
Unpacked Weight (approx.)	TBD

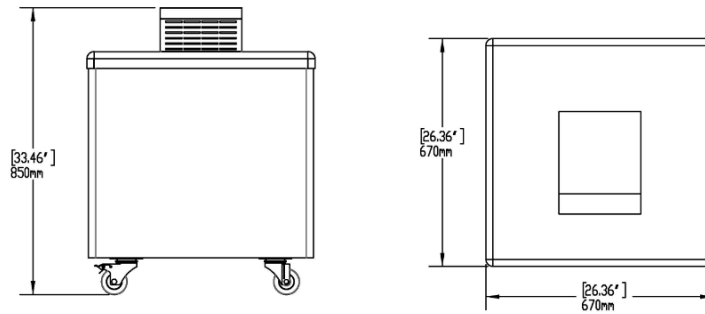
Dimension Diagrams

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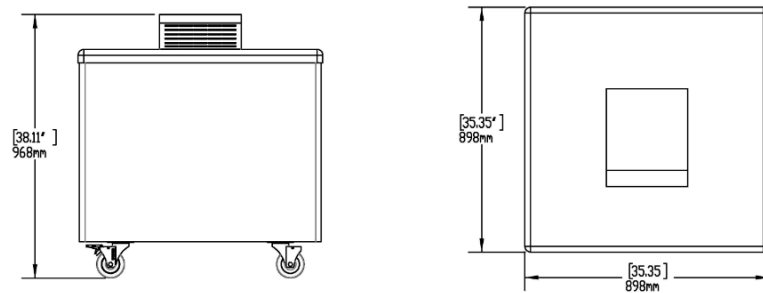
CUBICAL TYPE | 620 x 620 x 770 (in mm)



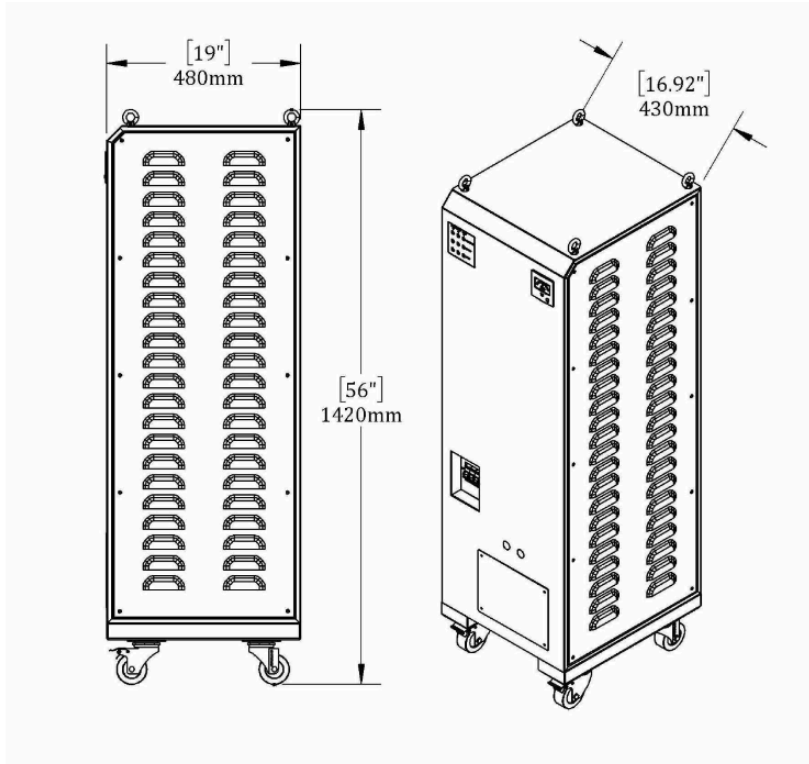
CUBICAL TYPE | 670 x 670 x 850 (in mm)



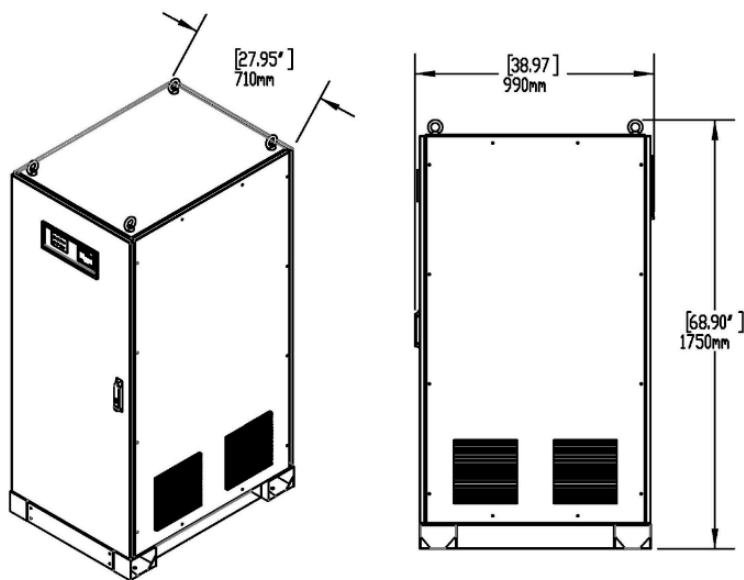
CUBICAL TYPE | 898 x 898 x 968 (in mm)



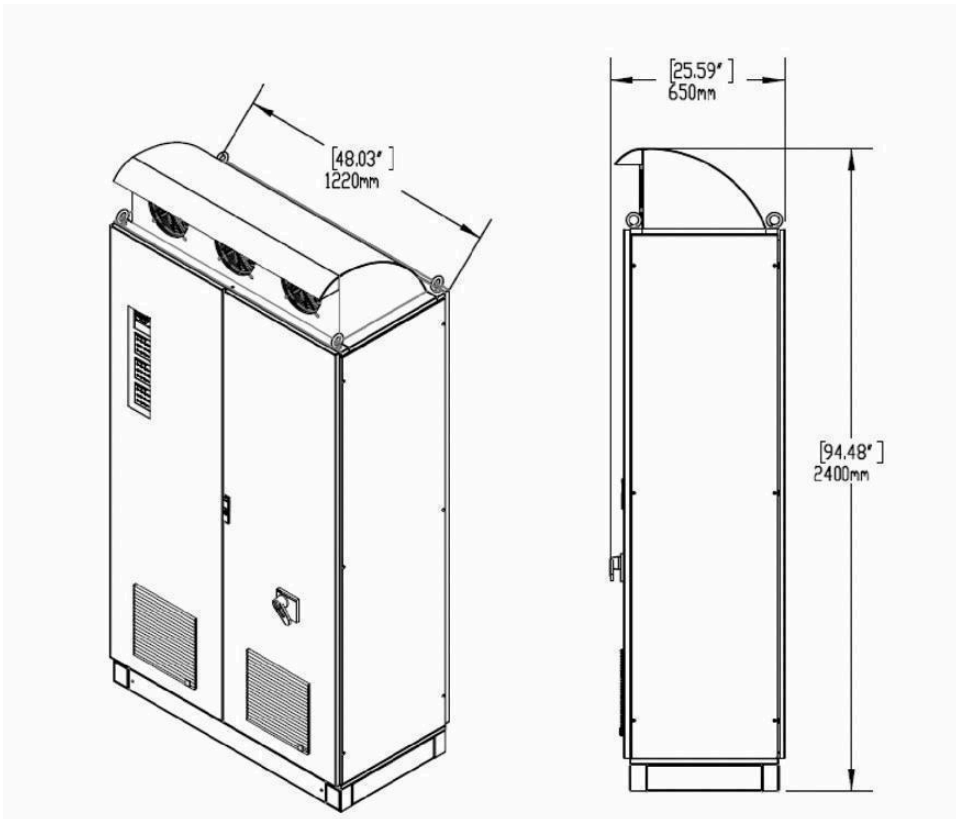
VERTICAL TYPE | 480 x 430 x 1420 (in mm)



VERTICAL TYPE | 990 x 710 x 1750 (in mm)



PANEL TYPE | 650 x 1220 x 2400 (in mm)



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Contact us for a **free demo trial** or a **customised quote** or just a hello!

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