

FORTE-T

3 Phase In – 3 Phase Out / 10kVA – 60kVA



- 3 Level IGBT Rectifier & Inverter Technology
- Real Digital Signal Processor (DSP) controlled
- Built-in Output transformer
- Increased Output Power Factor (PF:0.9)
- High AC-AC Efficiency (up to 93%)
- Unity Input Power Factor (p.f. > 0.99)
- Low Input Current THD (<3%)
- Low Output Voltage THD (<2%)
- Wide input voltage range
- Built-in Static & Manual Bypass
- Soft Start Feature
- Intelligent battery management system extends the life time of batteries
- Colorful Graphical Multi-Functional TouchScreen LCD Panel
- Event Log Display up to 500 Events
- Advanced communication possibility via RS232
- MODBUS connection through RS 485
- Generator Port for Generator Friendly Operation
- EPO Port for Emergency Power Off
- Management and monitoring software available for all operating systems
- Communication with computers and network systems through Optional SNMP
- Optional Programmable 4pcs Relays for dry contact signals

TECHNICAL SPECIFICATIONS

MODEL (380-400-415V 3ph version)	FORTE-T 33010	FORTE-T 33015	FORTE-T 33020	FORTE-T 33030	FORTE-T 33040	FORTE-T 33060
Power (kVA)	10	15	20	30	40	60
Active Power (kW)	9	13,5	18	27	36	54
INPUT						
Phase	3Ph+N+PE					
Nominal Voltage	380V / 400V / 415V					
Voltage Range [%100 Load]	[-15%] [+20%]					
Voltage Range [%50 Load]	[-45%] [+20%]					
Nominal Frequency [Hz]	50 or 60					
Frequency Range [Online Mode]	45-65Hz					
Input Current THD*	<3%					
Input Power Factor	> 0.99					
OUTPUT						
Output Power Factor	0.9					
Phase	3Ph+N+PE					
Nominal Voltage	380V / 400V / 415V (adjustable via display)					
Static Voltage Regulation @%100 Linear Load	<1%					
Output Voltage THD* (Online&Battery Mode)	< 2% (Linear Load)					
Crest Factor	3:1					
Frequency [Hz]	50 Hz / 60 Hz					
Frequency Range	± 0.01% (Battery Mode)					
Overload	"Online - Battery Mode: <125% Load 10 min, <150% Load 1 min Bypass Mode: <200% continuous up to 93% (Online)					
Efficiency*	up to 93% (Online)					
STATIC BYPASS LINE						
Phase	3Ph+N+PE					
Bypass Voltage Range	380V / 400V / 415V (adjustable via display: -15% +12%)					
Bypass Frequency Range	47 Hz - 53 Hz (adjustable)					
BATTERY						
Type	Maintenance-Free Lead Acid Batteries					
Charge Current (A)	Nominal Charge Current x 0.1 (adjustable via display)					
Battery QTY STANDARD	54					
Battery Protection	Deep Discharge Protection, Temperature-compensated Battery Charging					
Battery Test	Standard (Automatic & Manual)					
FRONT DISPLAY PANEL						
Display	3.5" TFT Touch Screen with UPS Operation Modes & Energy Flow Diagram					
Color Graphic Touch Screen TFT	Load %, Input / Output / Bypass Voltage, Output Power (W & VA), Output Current, Output Power Factor, Battery ± Voltage, Input / Output Frequency, DC Bus ± Voltage, Back-up Time, Internal Temperature					
Event Log	500pcs [details can be checked via display]					
COMMUNICATION						
Interface (Communication Port)	RS232 & RS485 MODBUS & SNMP (optional)					
Dry Contact Signals (Optional)	4pcs Relays configurable to ; "General Alarm", "Input Failure", "Battery Failure", "Output Failure", "Bypass Active", "Output Overload",					
ENVIRONMENT						
Storage Temperature [°C]	-25°C - +70°C (15 - 40°C recommended for longer battery life time)					
Operating Temperature [°C]	0 - 40°C (20 - 25 °C recommended for longer battery life time)					
Relative Humidity	0-%95 [non-condensing]					
Operating Altitude [maximum m.]	1000 m					
Protection Class	IP20					
Standards	EN 62040-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance), EN 60950					
PHYSICAL SPECIFICATIONS						
Dimensions [WxDxH] [mm] - STANDARD	400 x 750 x 1100			520 x 890 x 1310		
Weight [w/o battery] kg - STANDARD	235	240	251	273	450	502
OPTIONS						
Parallel Kit, Internal/External SNMP, Split Bypass, Remote Monitoring Panel, Battery Cabinet, Backfeed Protection						

* May vary depending on UPS power & Load & Environmental Conditions.