USA iSaver Specifications

Parameters	iSaver DPFC 150-480v	iSaver DPFC 256-480v	iSaver DPFC 337-480v	iSaver DPFC 405-480v
Type	Dynamic Power Factor Correction (DPFC) with Heavy Duty Harmonic Reactors and surge protection	Dynamic Power Factor Correction (DPFC) with Heavy Duty Harmonic Reactors and surge protection	Dynamic Power Factor Correction (DPFC) with Heavy Duty Harmonic Reactors and surge protection	Dynamic Power Factor Correction (DPFC) with Heavy Duty Harmonic Reactors and surge protection
Installation	Parallel connection to incoming Bus Bar with CT's installed on Mains for Indoor installation	Parallel connection to incoming Bus Bar with CT's installed on Mains for Indoor installation	Parallel connection to incoming Bus Bar with CT's installed on Mains for Indoor installation	Parallel connection to incoming Bus Bar with CT's installed on Mains for Indoor installation
Configuration	Suitable for use on 3 wire and 4 wire AC systems (Internal Delta/ Star)	Suitable for use on 3 wire and 4 wire AC systems (Internal Delta/ Star)	Suitable for use on 3 wire and 4 wire AC systems (Internal Delta/ Star)	Suitable for use on 3 wire and 4 wire AC systems (Internal Delta/ Star)
iSaver Approval	CSA-US	CSA-US	CSA-US	CSA-US
System Input voltage	480 VAC	480 VAC	480 VAC	480 VAC
System Frequency	60 Hz	60 Hz	60 Hz	60 Hz
System Amp Rating	178.5A	310A	406A	487A
System kVAr capacity@480V	148.5kVAr	256.5 kVAr	337.5 kVAr	405 kVAr
System design kVAr capacity@525V	165 kVAr	285 kVAr	375 kVAr	450 kVAr
Total Number of Banks/Electrical Steps	4 Banks & 11 Steps	5 Banks & 19 Steps	6 Banks & 25 Steps	6 Banks & 15 Steps
Installed Bank	13.5 + 27 + 54 + 54	13.5 + 27 + 54 + 81 + 81	13.5 + 27 + 54 + 81 + 81 +81	27 + 54 + 81 + 81 + 81 + 81
Minimum Activation Limit	9.45 kVAr	9.45 kVAr	9.45 kVAr	18.9 kVAr
Surge Protection (Incomer)	Surge Arrestor Class C, Type II (L-E)	Surge Arrestor Class C, Type II (L-E)	Surge Arrestor Class C, Type II (L-E)	Surge Arrestor Class C, Type II (L-E)
Duty	Continuous operation	Continuous operation	Continuous operation	Continuous operation
Cooling	Forced Air cooling (Thermally activated)	Forced Air cooling (Thermally activated)	Forced Air cooling (Thermally activated)	Forced Air cooling (Thermally activated)
Enclosure	Industrial Steel frame, CNC fabricated with Powder Coating protection (Shade RAL 7035-Light Grey)	Industrial Steel frame, CNC fabricated with Powder Coating protection (Shade RAL 7035-Light Grey)	Industrial Steel frame, CNC fabricated with Powder Coating protection (Shade RAL 7035-Light Grey)	Industrial Steel frame, CNC fabricated with Powder Coating protection (Shade RAL 7035-Light Grey)
Main Unit Safety	High Quality, 250A, 3Pole MCCB (UL/CSA Approved) with Advanced Electronic Release for high reliability and 50 KA SCCR fault rating	High Quality 400A, 3Pole MCCB (UL/CSA Approved) with Advanced Electronic Release for high reliability and 50 KA SCCR fault rating	High Quality 600A, 3Pole MCCB (UL/CSA Approved) with Advanced Electronic Release for high reliability and 50 KA SCCR fault rating	High Quality 800A, 3Pole MCCB (UL/CSA Approved) with Advanced Electronic Release for high reliability and 50 KA SCCR fault rating

Individual Banks Protection	Dedicated MCCB Protection in Bank 2 upwards	Dedicated MCCB Protection in Bank 2 upwards	Dedicated MCCB Protection in Bank 2 upwards	Dedicated MCCB Protection in Bank 2 upwards
Small Bank and accessories protection	UL-CSA approved fuse protection	UL-CSA approved fuse protection	UL-CSA approved fuse protection	UL-CSA approved fuse protection
Capacitor Type	MKPg Heavy Duty, Non-inflatable, 525V Gas Impregnated, self-healing, MPP, Low loss metalized Polypropylene (Non PCB) Industrial	MKPg Heavy Duty, Non-inflatable, 525V Gas Impregnated, self-healing, MPP, Low loss metalized Polypropylene (Non PCB) Industrial	MKPg Heavy Duty, Non-inflatable, 525V Gas Impregnated, self-healing, MPP, Low loss metalized Polypropylene (Non PCB) Industrial	MKPg Heavy Duty, Non-inflatable, 525V Gas Impregnated, self-healing, MPP, Low loss metalized Polypropylene (Non PCB) Industrial
Capacitor Enclosure & Design Type	Extruded Aluminum- Dry Design	Extruded Aluminum- Dry Design	Extruded Aluminum- Dry Design	Extruded Aluminum- Dry Design
Capacitor Impregnation	Inert Gas (N2)-Dry Type	Inert Gas (N2)-Dry Type	Inert Gas (N2)-Dry Type	Inert Gas (N2)-Dry Type
Capacitor Mean Life expectancy	150,000 Hrs (self-healing capability)	150,000 Hrs (self-healing capability)	150,000 Hrs (self-healing capability)	150,000 Hrs (self-healing capability)
Capacitor safety, Touch proof terminals & Insulation	Over pressure disconnect, Class 2	Over pressure disconnect, Class 2	Over pressure disconnect, Class 2	Over pressure disconnect, Class 2
Capacitor over current and Inrush current (IS)	300% IR & 1.5X IS Continuous	300% IR & 1.5X IS Continuous	300% IR & 1.5X IS Continuous	300% IR & 1.5X IS Continuous
Capacitor Overvoltage (Vmax)for 1 Min	680VAC	680VAC	700VAC	700VAC
Capacitor Temperature range (Ambient)	(-25 deg C to +55 deg C)	(-25 deg C to +55 deg C)	(-25 deg C to +55 deg C)	(-25 deg C to +55 deg C)
Harmonic Reactor Type	Heavy Duty, 7% Detuned Harmonic Filter Reactor dedicated for each capacitor step	Heavy Duty, 7% Detuned Harmonic Filter Reactor dedicated for each capacitor step	Heavy Duty, 7% Detuned Harmonic Filter Reactor dedicated for each capacitor step	Heavy Duty, 7% Detuned Harmonic Filter Reactor dedicated for each capacitor step
Saturation limit	1.8 times In (Ensuring very high linearity)	1.8 times In (Ensuring very high linearity)	1.8 times In (Ensuring very high linearity)	1.8 times In (Ensuring very high linearity)
Reactor Irms	1.15X In (Continuous)	1.15X In (Continuous)	1.15X In (Continuous)	1.15X In (Continuous)
Reactor Material	Quality electrical copper winding with low loss iron core	Quality electrical copper winding with low loss iron core	Quality electrical copper winding with low loss iron core	Quality electrical copper winding with low loss iron core
Reactor Insulation Class	Class H- 180 deg C	Class H- 180 deg C	Class H- 180 deg C	Class H- 180 deg C
Reactor inbuilt Safety	NC Thermostat operated @125 deg C	NC Thermostat operated @125 deg C	NC Thermostat operated @125 deg C	NC Thermostat operated @125 deg C
iSaver Dimensions	59" (1500mm) x 31.5" (800mm) x 29.5" (750mm)	66.9" H (1700mm) x 39.4"W x (1000mm) x 27.5"D (700mm)	78.7" (2000mm) x 43" (1100mm) x 29.5" (750mm)	82.6" (2100mm) x 43.3" (1100mm) x 31.5" (800mm)
iSaver Weight	837 lbs (380 Kg)	950 lbs (430kg)	1380 lbs (610 kg)	1565 lbs (710 Kg)