

JEC Product Line Up

Type												
Input side (DC)	DC650V						DC350V					
Rated Voltage*	DC550-950V						DC320V-600V					
Operational Voltage Range	32						24					
Number of Input Circuits	16						2					
Rated Power	1667kW(1667kVA)	1000kW(1000kVA)	750kW(750kVA)	665kW(750kVA)	630kW(700kVA)	500kW(600kVA)	500kW(500kVA) 490kW(500kVA)	250kW(250kVA)	175kW(250kVA)	100kW(100kVA)		
Output Side (AC)	AC380V						AC210V					
Rated Voltage* ²	2533A						1519A					
Rated Current (PF =1)	1140A						1064A					
Rated Frequency	50Hz/60Hz (frequency range within ±1%)						50Hz/60Hz (frequency range within ±1%)					
# of Phases and Wires	3-phase, 3-wire						3-phase, 3-wire					
Power Factor Range	0.85~1.00 (0.01 step)						0.85~1.00 (0.01 step)					
Rated Power Factor* ³	Over 0.99						Over 0.99					
Relative Harmonic Content	5% total, less than 3% per order						5% total, less than 3% per order					
Efficiency (at 100% output)	98.3% (@650VDC)	98.1% (@650VDC)	98.0% (@650VDC)	98.1% (@650VDC)	98.1% (@650VDC)	98.3% (@650VDC)	97.1% (@350VDC)	96.7% (@350VDC)	97.1% (@350VDC)	97.0% (@350VDC)	95.7% (@350VDC)	
Maximum Efficiency	98.6% (@650VDC)	98.7% (@650VDC)	98.6% (@550VDC)				97.7% (@320VDC)	97.4% (@350VDC)		97.3% (@320VDC)	96.2% (@320VDC)	
Output Surge Resistance: EC61643-1, JISC5381-1	Maximum Discharge Current 50kA (Class II)						40kA (Class II)		Maximum Discharge Current 40kA (Class II)			
Main Circuit System	Voltage Source Inverter with Current Control						Voltage Source Inverter with Current Control					
Conversion Method	PWM Control						PWM Control					
Switching Method	Non-isolated (transformerless type)						Non-isolated (transformerless type)			Isolated (commercial isolated method)		
Insulation Method	Ethernet						●					
External Interface	MODBUS/TCP						●					
	RS-485						●					
Grid Protection	Overvoltage Relay(OVR)						●					
	Overvoltage Relay(UVR)						●					
	Overfrequency Relay (OFR)						●					
	Underfrequency Relay (UFR)						●					
	Overground (OVG) (Option)		Only for External				Built-in		Built-in		Only for External	
Anti-islanding Detection	Passive Method						Voltage Phase Jump Detection					
	Active Method						Slip Mode Frequency Shift					
FRT Requirements	FRT requirements based on Grid-connection Code JEAC9701-2012 shall be applied						FRT requirements based on Grid-connection Code JEAC9701-2012 shall be applied					
Power To Be Supplied	Auxiliary Equipment Power		—		AC200V-1φ2W-800VA		AC210V-1φ2W-700VA					
	Control Power (UPS)		—		AC100V-1φ2W-1000VA			AC100V-1φ2W-500VA		—(Standard: Internal Power Supply)		
										—(Standard: Internal Power Supply/FRT Requirements Applicable: External Power Supply)		
Structure Specifications	Operational Environment		Outdoor IP55/45* ⁴		Indoor (IP20)			Indoor (IP20)		Indoor (IP2X)		Outdoor (IP44)* ⁵
	Cooling Method						Forced Air-cooling			Natural Cooling (fan-less)		
	Dimensions (W x D x H) mm		6000 x 1230 x 2283* ⁶		3300 x 730 x 2025* ⁶		1900 x 730 x 2025* ⁶		1200 x 730 x 1950* ⁷		800 x 1000 x 1950* ⁷	
	Board weight		Apporx. 7000kg		Apporx. 2500kg		Apporx. 1300kg		Apporx. 850kg		Apporx. 700kg	
	Terminal of External Line				Bottom					Bottom		
Environmental Conditions	Ambient temperature		-20-40°C		-5-40°C					-5-40°C		
	Relative humidity (RH)		5-95%		15-85% (no condensation)					15-85% (no condensation)		
	Altitude		≤ 2,000m		≤ 1,000m					≤ 1,000m		

*Including MPPT range
²Voltage range within +/-10%, Voltage distortion 5%
³Rated voltage and 100% output
⁴IP55 at Control system / IP45 a Cooling system
⁵Outdoor IP44 unavailable for salt damage area
⁶Includes channel base and hanging bracket
⁷Includes channel base, does not include hanging bolt