

Model	ICR100-20000C (105V)	ICR200-20000C	ICR100-20000F
Input Parameters			
Rated Input Voltage	3-Phase, 380 Vac / 480 Vac	3-Phase, 380 Vac / 480 Vac	3-Phase, 380 Vac / 480 Vac
Input Voltage Range	320 ~ 530 Vac (full load); 260 ~ 320 Vac (linear derating to half load)	320 ~ 530 Vac (full load); 260 ~ 320 Vac (linear derating to half load)	320 ~ 530 Vac (full load); 260 ~ 320 Vac (linear derating to half load)
Input Current	< 40 A	< 40 A	< 40 A
Frequency	45 Hz ~ 65 Hz	45 Hz ~ 65 Hz	45 Hz ~ 65 Hz
Power Factor (PF)	≥ 0.99	≥ 0.99	≥ 0.99
THDi	≤ 5%	≤ 5%	≤ 5%
Input Protection	Fuse; Surge Protection Circuit (SPD)	Fuse; Surge Protection Circuit (SPD)	Fuse; Surge Protection Circuit (SPD)
Output Parameters			
Rated Output Power	20 kW	20 kW	20 kW
Output Rated Value	—	—	100 V @ 200 A
Rated Output Current	200 A	100 A	—
Output Voltage Range	30 ~ 105 V	60 ~ 200 V	20 V ~ 120 V (Constant power 91 ~ 120 V, output power 20 kW)
Constant Power Range	—	—	91 V ~ 120 V
Output Current Range	—	—	0 ~ 220 A (T ≤ 55°C)
Adjustable Current Limiting Range	10% ~ 110%	10% ~ 110%	—
Peak-to-Peak Ripple & Noise	≤ ± 0.5%	≤ ± 0.5%	≤ 1.0%
Voltage Stabilized Accuracy	≤ ± 0.5%	≤ ± 0.5%	≤ ± 0.5%
Current Regulation Accuracy	≤ ± 1.0%	≤ ± 1.0%	≤ ± 1.0%
Current Sharing Error	≤ ± 5.0%	≤ ± 5.0%	≤ ± 5.0%
Efficiency	≥ 94.5%	≥ 94.5%	≥ 95.0% (peak)
12V Auxiliary Output	—	—	12 V / 2 A; 12 V / 3 A (1 minute)
Operating Environment			
Operating Temperature Range	-40°C ~ 55°C (normal operation); 55°C ~ 75°C (Derating Output)	-40°C ~ 55°C (normal operation); 55°C ~ 75°C (Derating Output)	-40°C ~ 55°C (normal operation); 55°C ~ 75°C (Derating Output)
Storage Temperature Range	-40°C ~ 75°C	-40°C ~ 75°C	-40°C ~ 75°C
Relative Humidity	0 ~ 95% RH (non-condensing)	0 ~ 95% RH (non-condensing)	0 ~ 95% RH (non-condensing)
Altitude	Below 2000m (full load output)	Below 2000m (full load output)	Below 2000m (full load output)

Physical Characteristics			
Dimensions (W×H×D)	240×85×370 mm	240×85×370 mm	214×84×426 mm (Excl. Handle/Terminals); 214×84×469 mm (Incl. Handle/Terminals)
Net Weight	Approx. 9 kg	Approx. 9 kg	Approx. 10 kg
Communication & Control			
Communication Interface	CAN Bus	CAN Bus	—
Max. Paralleling Quantity	60 Units	60 Units	—
Status Monitoring	Uploaded via CAN Bus, indicated by panel	Uploaded via CAN Bus, indicated by panel	—
Safety & Reliability			
Dielectric Strength	Input-Output: 4242 Vdc, 1 min; Input-Chassis: 3535 Vdc, 1 min; Output-Chassis: 2121 Vdc, 1 min; COM-Chassis: 707 Vdc, 1 min	Input-Output: 4242 Vdc, 1 min; Input-Chassis: 3535 Vdc, 1 min; Output-Chassis: 2121 Vdc, 1 min; COM-Chassis: 707 Vdc, 1 min	Input-Output, Input-COM: 4242 Vdc, 1 min; Input-Chassis: 3535 Vdc, 1 min; Output-Chassis, Output-COM: 2121 Vdc, 1 min;
MTBF	> 120,000 Hours	> 120,000 Hours	> 120,000 Hours
Standards & Certifications			
Safety Standard	—	—	Compliant with IEC 62477-1