

Ⓜ Charging Module For Industrial Vehicle

Charging module of 20KW series



Main Technical Parameters

Item	Technical Index
Module type	ICR100-20000C
Dimension	240mm × 85mm × 370mm[W × H × D]
Output power	20KW
Rated output current	200A
Output voltage range	30~105VDC
Output current limit	10~110%
Peak-peak noise	< ± 0.5%
Voltage stabilized accuracy	< ± 0.5%
Current stabilized accuracy	< ± 1%
Current sharing	< ± 5%
Efficiency (full load)	> 94.5%
Rated input voltage	380VAC/480VAC, 3L+PE
Input voltage range	320VAC ~ 530VAC [full load], 320VAC ~ 260VAC [reduced to half load]
Input current	< 40A (20KW)
Frequency	45Hz ~ 65Hz
Power factor	> 0.99
Total harmonic distortion (THD)	< 5%
Input protection	Insurance; Lightning protection circuit
Ambient temperature	-40°C ~ 75°C , derating from 55°C
Storage temperature	-40°C ~ 75°C
Relative humidity	0 ~ 95%
Altitude	2000m[full load]
Insulation strength	The input pair housing can withstand 50Hz RMS 2500VAC or equivalent 3535VDC for 1 minute The input-output can withstand 50Hz RMS 3000VAC or equivalent 4242VDC for 1 minute
MTBF	> 120000h
Weight	9Kg
Communication	CAN
Max number of parallel connections	60
	The output is protected by positive and negative insurance The output has self-discharge function

Ⓜ Charging Module For Industrial Vehicle

Charging module of 10KW series



Main Technical Parameters

Item	Technical Index				
Module type	TR48-9000e	EVR100-10000	ICR100-10000	EVR130-10000L	ICR100-10000L
Output power	9KW	10KW	10KW	10KW	10KW
Rated output current	150A	100A	100A	75A	100A
Output voltage range	42 ~ 58VDC	30 ~ 100VDC	30 ~ 100VDC	65~135VDC	30~100VDC
Output current limit	5% ~ 110%	10% ~ 110%			
Peak-peak noise	200mV	≤ 1%			
Voltage stabilized accuracy	≤ ± 0.5%			≤ ± 1%	
Current stabilized accuracy				≤ ± 1%	
Current sharing				≤ ± 5%	
Efficiency (full load)	≥ 95%	≥ 94.5%	≥ 94.5%	≥ 93.5%	≥ 92%
Rated input voltage	380VAC/480VAC, 3L+PE			200Vac/240Vac, 3L+PE	
Input voltage range	305VAC ~ 530VAC[full load], 305VAC ~ 260VAC [reduced to half load]			176Vac ~ 250Vac[full load], 145Vac ~ 176Vac[reduced to half load]	
Input current	< 22A			< 45A	
Frequency	45Hz ~ 65Hz				
Power factor	≥ 0.99				
Total harmonic distortion (THD)	≤ 5%				
Input protection	Insurance; Lightning protection circuit				
Ambient temperature	-40°C ~ 65°C, derating from 45°C	-40°C ~ 75°C, derating from 50°C		-40°C ~ 75°C, derating from 55°C	
Storage temperature	-40°C ~ 75°C				
Relative humidity	0 ~ 95%				
Altitude	2000m[full load]				
Insulation strength	The input pair housing can withstand 50Hz RMS 2500VAC or equivalent 3535VDC for 1 minute The input-output can withstand 50Hz RMS 3000VAC or equivalent 4242VDC for 1 minute:				
MTBF	> 120000h				
Dimension	240mm × 85mm × 398mm [W × H × D]				
Weight	8Kg				
Communication	CAN				
Max number of parallel connections	60				
	The output is protected by positive and negative insurance; Alarms and status are reported to the monitoring device through the CAN interface, there are three panel LED indicators, software can automatically sort addresses				

Ⓜ Charging Module For Industrial Vehicle

Charging module of 7.5KW series



Main Technical Parameters

Item	Technical Index				
	EVR300-7500	EVR150-7500	EVR100-7500	TR48-6000e	TR48-6000
Module type	EVR300-7500	EVR150-7500	EVR100-7500	TR48-6000e	TR48-6000
Output power		7.5KW			6KW
Rated output current	25A	50A	75A		100A
Output voltage range	50 ~ 300VDC	50 ~ 150VDC	30 ~ 100VDC		42 ~ 58VDC
Output current limit		10% ~ 110%			5% ~ 110%
Peak-peak noise		< ± 0.5%			200mV
Voltage stabilized accuracy			≤ ± 0.5%		
Current stabilized accuracy			≤ ± 1%		
Current sharing			≤ ± 5%		
Efficiency (full load)		≥ 95%		≥ 96%	≥ 94%
Rated input voltage		380VAC/480VAC, 3L+PE			
Input voltage range		305VAC ~ 530VAC [full load], 305VAC ~ 260VAC[reduced to half load]			
Input current		< 16A			
Frequency		45Hz ~ 65Hz			
Power factor		≥ 0.99			
Total harmonic distortion (THD)		≤ 5%			
Input protection		Insurance; Lightning protection circuit			
Ambient temperature		-40°C ~ 75°C, derating from 55°C		-40°C ~ 65°C, derating from 45°C	
Storage temperature		-40°C ~ 75°C			
Relative humidity		0 ~ 95%			
Altitude		2000m[full load]			
Insulation strength		The input pair housing can withstand 50Hz RMS 2500VAC or equivalent 3535VDC for 1 minute The input-output can withstand 50Hz RMS 3000VAC or equivalent 4242VDC for 1 minute:			
MTBF		> 120000h			
Dimension		240mm × 85mm × 398mm [W × H × D]			
Weight		8Kg			
Communication		CAN			
Max number of parallel connections		60			
		The output is protected by positive and negative insurance; Alarms and status are reported to the monitoring device through the CAN interface, there are three panel LED indicators, software can automatically sort addresses			

Ⓜ Charging Module For Industrial Vehicle

Charging module of 3.5KW series



Main Technical Parameters

Item	Technical Index					
	TR48-3500(K)	TR48-3000(K)	TR24-2200(K)	EVR200-3500	EVR140-3500	EVR100-3500
Module type	TR48-3500(K)	TR48-3000(K)	TR24-2200(K)	EVR200-3500	EVR140-3500	EVR100-3500
Output power	3.5KW	3KW	2.2KW		3.5KW	
Rated output current	60A	50A	75A	18A	25A	35A
Output voltage range		42VDC ~ 58VDC		100 ~ 200VDC	80 ~ 140VDC	30 ~ 100VDC
Output current limit		5% ~ 110%			10% ~ 110%	
Peak-peak noise		200mV			< ± 0.5%	
Voltage stabilized accuracy			≤ ± 0.5%			
Current stabilized accuracy			≤ ± 1%			
Current sharing			≤ ± 5%			
Efficiency (full load)		≥ 92.5%	≥ 90.5%		≥ 93%	
Rated input voltage		220VAC/220VDC; 110VAC/110VDC [half load]				
Input voltage range		176VAC ~ 300VAC[full load], 176VAC ~ 85VAC [reduced to half load] 176VDC ~ 420VDC [full load], 176VDC ~ 85VDC [reduced to half load]				
Input current	< 25A	< 20A	< 15A		< 25A	
Frequency		45Hz ~ 65Hz				
Power factor		≥ 0.99				
Total harmonic distortion (THD)		≤ 5%				
Input protection		Insurance; Lightning protection circuit				
Ambient temperature		-40°C ~ 75°C, derating from 45°C		-40°C ~ 75°C, derating from 50°C		
Storage temperature		-40°C ~ 75°C				
Relative humidity		0 ~ 95%				
Altitude		2000m[full load]				
Insulation strength		The input pair housing can withstand 50Hz RMS 2500VAC or equivalent 3535VDC for 1 minute The input-output can withstand 50Hz RMS 3000VAC or equivalent 4242VDC for 1 minute				
MTBF		> 120000h				
Dimension		125mm × 41mm × 303mm [W × H × D]				
Weight		2Kg				
Communication		CAN				
Max number of parallel connections		60↑				
		Alarms and status are reported to the monitoring device through the CAN interface, there are three panel LED indicators, software can automatically sort addresses Note: No K means only three LED indicators; K means display with key/digital tube				