RTD Series All-in-One Integrated Controller for Pure Electric Vehicle

Application: minivans, medium-sized vans, pickup truck, 4.5T light truck, etc.



- **High EMC level**
- **Rich configuration**
- **Wide model coverage**
- **High power density**

MCU Model	RTD080D	RTD095D	RTD120C/RTD120D
Rated Battery Input Voltage (VDC)	320	320	320
Battery Input Voltage Range (VDC)	240-450	240-450	240-450
Auxiliary power supply voltage (V)	12	12	12
Rated Output Current(A)	130	140	200
Maximum Output Current(A)	270	330	400
Rated Capacity(kVA)	45	67	72
Maximum Capacity(kVA)	90	135	144
Protection class	IP67	IP67	IP67
Dimension(mm)	380*354*192	380*354*192	380*354*192

DCDC Input Voltage Range(VDC)	240-420	PDU Battery Input(VDC)	240-450; <350A
Input Current Range(A)	<10 (240 VDC full load)	Fast Charge Input (VDC)	240-450; <125A
Efficiency(%)	≥94	Extended Range Input (VDC)	240-450; <220A
Output Voltage Range(V)	9-16	OBC Input(VAC)	85-256; <32A
Rated Output Voltage(V)	13.8	Air Conditioning Output(VDC)	240-450; <20A
Rated Output Current(A)	145	PTC1 Output(VDC)	240-450; <20A
Rated Power(kW)	2	PTC2 Output(VDC)	240-450; <20A
Voltage Ripple(mV)	350	DCDC Output(VDC)	9-16 ; <145A
		Top-mounted output (VDC)	240-450: <60A
		Controller Output(VAC)	230; <400A

OBC Rated Power (kW)	6.6	Motor Model	RTM210.140
Input Voltage Range(VAC)	85-256	Rated Voltage(VAC)	238
Input Current (A)	32 max	Rated Power(kW)	45
Power Factor	≥0.99(220Vac, full load)	Peak Power(kW)	90
Output Voltage Range(VDC)	250-450(on request)	Rated torque(N·m)	108
Maximum Output Current(A)	20	Peak Torque(N·m)	270
Efficiency(%)	94(Rated voltage)	Rated Speed(RPM)	3979
Voltage Accuracy(%)	±1	Peak speed(RPM)	10000
Current Accuracy(A)	±2	Motor outer diameter(mm)	271
		Motor Length(mm)	270