

# Generator Controller Comparison Table

Specification	GCU-10	GCU-20	GCU-30	GCU-100	GCU-3000	GCU-4K	AMF-10
Pictures							
DC Power Supply	9 to 36 Vdc	9 to 36 Vdc	9 to 36 Vdc	9 to 36 Vdc	9 to 36 Vdc	9 to 40 Vdc	9 to 36 Vdc
Alternator Voltage Input	5 to 300 Vac	5 to 300 Vac	5 to 300 Vac	15 to 510 Vac (Ph-Ph)	15 to 500 Vac (Ph-Ph)	15 to 500 Vac (Ph-Ph)	15 to 510 Vac (Ph-Ph)
Alternator Frequency Input	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Cranking Signal Output	5 Amp @12/24 Vdc	10 Amp @12/24 Vdc	1.2 Amp @12/24 Vdc	8 Amp @12/24 Vdc	10 Amp @12/24 Vdc	10 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Fuel or Stop Solenoid Signal Output	5 Amp @12/24 Vdc	10 Amp @12/24 Vdc	1.2 Amp @12/24 Vdc	8 Amp @12/24 Vdc	10 Amp @12/24 Vdc	10 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Preheat Signal Output	5 Amp @12/24 Vdc	300 mA @12/24 Vdc	1.2 Amp @12/24 Vdc	8 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Accessory "ON" Signal Output	5 Amp @12/24 Vdc	1 Amp @12/24 Vdc	X	8 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Idle Control Signal Output	5 Amp @12/24 Vdc	1 Amp @12/24 Vdc	X	8 Amp @12/24 Vdc	1 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Failure Alarm Output	X	X	X	8 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Overload Alarm Output	X	X	X	8 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	8 Amp @12/24 Vdc
Engine Warm Up Signal Output	X	300 mA @12/24 Vdc	X	X	2.5 Amp @12/24 Vdc	X	X
Engine Running Signal Output	X	X	X	X	2.5 Amp @12/24 Vdc	X	X
Space Heater Signal Output	X	X	X	X	2.5 Amp @12/24 Vdc	2.5 Amp @12/24 Vdc	X
Charge Alternator Excitation Signal Output	X	X	12 / 24 Vdc	12 / 24 Vdc	X	12 / 24 Vdc	X
Normal Power Connect to Load Signal	X	X	X	X	X	X	8 Amp @ 250 Vac
Standby Power Connect to Load Signal	X	X	X	X	X	X	8 Amp @ 250 Vac
Operating Temperature	(-20°C to +70°C)	(-20°C to +70°C)	(-20°C to +70°C)	(-20°C to +70°C)	(-20°C to +70°C)	(-20°C to +70°C)	(-20°C to +70°C)
Relative Humidity	Below 90%	Below 90%	Below 90%	Below 95%	Below 95%	Below 95%	Below 95%
Power Consumption	Under 3W	Under 3W	Under 3W	Under 5W	Under 7W	GC4K: Under 1W GC4K-D07: Under 3W	X
Weight	166 g ± 2%	206 g ± 2%	101 g ± 2%	604 g ± 2%	1341 g ± 2%	GC4K: 480 g +/-2% GC4K-E: 480 g +/-2% GC4K-D07: 730 g +/-2%	589 g ± 2%
<b>Protections &amp; Alarm indicators</b>							
Over Cranking	✓	✓	X	✓	✓	✓	✓
High Temperature	✓	✓	✓	✓	✓	✓ (GC4K)	✓
Low Oil Pressure	✓	✓	✓	✓	✓	✓	✓
Engine Over Speed	✓	✓	✓	✓	✓	✓	✓
Engine Under Speed	✓	✓	X	✓	✓	✓	✓
Spare / User define Shutdown	✓	✓	✓	✓	✓	✓	✓
Emergency Stop	✓	X	X	✓	✓	✓	✓
Low Fuel Level	X	X	X	✓	✓	✓	✓
Low Battery Voltage	✓	X	X	✓	✓	✓	✓
Over Voltage	X	X	X	✓	✓	✓	✓
Under Voltage	X	X	X	✓	✓	✓	✓
Generator Overload	X	X	X	✓	✓	✓	✓
Service & Maintenance warning	X	X	X	✓	✓	✓	✓
Charge Alternator Failure	X	X	✓	✓	X	✓	X
Magnetic Pick-Up (MPU) Failure	X	✓	X	✓	✓	✓ (GC4K)	X
Oil Pressure or Temperature Sensor Failure	X	X	X	X	✓	✓ (GC4K)	X
Location Service	X	X	X	X	X	✓	X
<b>Parameters Display on Front Panel</b>							
LEDs Alarm Indicators	✓	✓	✓	✓	✓ (LCD)	✓ (Colorful LCD)	✓
LCD Module	X	X	X	X	✓	Multi-Touch Screen	X
7 Segment Display Module	X	X	X	✓	✓	X (Colorful LCD)	✓
Ph-Ph Voltage Meter	X	X	X	✓	✓	✓	✓
Ph-N Voltage Meter	X	X	X	X	✓	✓	X
Load Current Meter	X	X	X	✓	✓	✓	✓
Frequency Meter	X	X	X	✓	✓	✓	✓
Battery Voltage Meter	X	X	X	✓	✓	✓	✓
Running Hours Meter	X	X	X	✓	✓	✓	✓
KVA Meter	X	X	X	X	✓	✓	X
KVAR Meter	X	X	X	X	X	✓	X
KW Meter	X	X	X	X	X	✓	X
Power Factor (PF)	X	X	X	X	X	✓	X
Temperature Meter	X	X	X	X	✓	✓	X
Oil Pressure Meter	X	X	X	X	✓	✓	X
<b>Others</b>							
Remote Communication Function	X	X	X	✓	✓	✓	✓
Event Logs	X	X	X	X	✓	✓	X
Magnetic Pick-Up (MPU) Connection	X	✓	X	✓	✓	✓ (GC4K)	X
Build-In AVR Voltage Adjusted Potentiometer	X	X	X	X	✓ (1000 Ω)	X	X
Build-In Emergency Stop Push Button	X	X	X	X	✓	✓	X
Auto Mains Failure Control	X	X	X	X	X	X	✓
Replicate settings	X	X	X	X	X	✓	X
Voice and Audio Alarm	X	X	X	X	X	✓	X
Push Notification	X	X	X	X	X	✓	X

