

# CROWNPOWER SYSTEMS LTD

## TECHNICAL DATA Cummins 1500 – 2000 kVA Prime

MODEL	Prime Standby	CPC1500 CPC1670S	CPC1700 CPC1920S	CP2000 CP2250S
	Hz	50	50	50
	Speed	1500	1500	1500
<b>POWER OUTPUT</b>				
Prime Power	kVA	1500	1710	2000
	kWE	1200	1368	1600
Standby Power	kVA	1676	1920	2250
	kWE	1341	1536	1800
<b>GENERAL DATA</b>				
Engine Model		KTA50G8	QSK60G2	QSK60G4
Configuration		In Line 6/ Turbo	In Line 6/ Turbo	In Line 6/ Turbo
Governor		Mechanical	Mechanical	Mechanical
Alternator Model		HC1734F	HC1734G	P70L14C
Insulation		Class H	Class H	Class H
AVR				
Dimensions cm (L x W x H)				
Weight (wet)				
<b>Fuel Consumption</b>				
Prime	100%Load	310	337	394
Standby	100%Load	345	373	437
<b>Lube Oil Consumption</b>				
100% Prime		1.55		1.97
<b>Exhaust Gas (100% Standby)</b>				
Outlet Temperature		510		450
Flowrate		261		337
Back Pressure (Max) mm/WG				693
<b>Cooling Air (100% Standby)</b>				
Airflow	m <sup>3</sup> /min	99		144
Duct Allowance mm WG		13		19
<b>Radiated Heat</b>				
Engine (Carcass Only)				
Alternator				
<b>Load Acceptance</b>				
First Step kWE				
<b>Capacities</b>				
Engine Coolant	Ltrs	562	621	621
Engine Lube Oil	Ltrs	204	280	280
Fuel Tank	Ltrs			

### Rating Definitions

#### Prime Power Models

All ratings are suitable for continuous electrical power (at variable load in lieu of mains power network)

There are no limitations to the annual hours of operation and all models will supply 10% for 1 hour in any 12 hours operation.

#### Standby Power Models

All ratings are suitable for the supply of emergency electrical power (at variable load in the event of network power failure) up to a maximum of 500 hours per annum No Overload is permitted.

#### Standard Reference Conditions

Fuel consumption figures are at 100% Prime Power. Output ratings are typical for sets operating at 380/416 volts

Ratings are at 25° C (77° F) ambient 177m (600ft) A.S.L All data in accordance with BS 5514 DIN 6271 ISO 3528 ISO 3046

# STANDARD SPECIFICATION

## Engine Water Cooled Direct Injection

Multi cylinder in line or vee form industrial diesel engine  
12/24 volt heavy duty dry charged  
Battery leads & lugs fitted  
Battery charge alternator  
Air cleaner medium duty  
Full flow fuel & oil filters  
Fuel lift pump & water separator  
Mechanical/Electronic governor  
Tropical duty radiator suitable for 40°C air on  
Engine driven fan

## Alternator (Newage)

Brushless  
Reconnectable 6/12 wire  
Class H insulation throughout  
Tropical protection  
Single Bearing  
Flexible disc coupling  
Spigotted coupling housing  
Voltage regulation better than +/- 1% at any pf between 0.8 lagging & unity  
Enclosure to IP22(NEMA 1) as standard for critical applications IP23 is available

## Chassis

Heavy duty fabricated steel chassis  
Four built in lifting points  
Built in fuel tank  
Twin flexible fuel lines  
Anti-Vibration mountings built in

## Control Panel (Digital)

Set mounted on anti vibration mountings manufactured from sheet steel finished white powder coating  
Key Operated Control Module giving Digital indication of volts amps & Frequency  
Low oil pressure  
High water temperature  
Engine overspeed  
Oil pressure gauge  
Water temperature gauge  
Battery charge voltmeter  
Set of instrument fuses  
3/4 Pole MCCB fitted with overload protection  
Set of suitably rated load terminals  
telemetry & or remote control options plus many other functions by upgrading module

## Optional (Analogue)

As an option you may prefer to have full analogue instrumentation which is available on request

## Finish

Self etched primer where required  
Final coat air dry enamel

## Packing

Shrink wrapped for shipping  
Except containerised or very large canopies

## Optional Extras:

**Weatherproof** canopies  
**Acoustic** enclosures  
**Containerised** acoustically treated packages  
**Trailers** for road or site use  
**Remote** radiator & installation kits  
**Heat** exchanger packages  
**Additional** exhaust silencers pipework etc to suit installation  
**Free** standing daily service or bulk fuel tank installation kits  
**Automatic** fuel transfer systems  
**Manual** or automatic synchronising systems switchgear packages etc  
**Automatic** transfer switches wall mounting or floor standing  
**Special** governing systems

## Warranty

Full manufacturers warranty guaranteeing the equipment for 12 months from commissioning or 18 months from shipment whichever is first

## General

Set of engine alternator & plant instruction manuals /electrical schematics  
Fully factory tested complete with authorised test certificate  
Fully wired in flexible conduit sleeved cleated & anchored

## CROWPOWER SYSTEMS Engineered Power Solutions



Customer Focused



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