



**Power  
Generation**

**Our energy working for you.™**

# Full Product Line - Asia Pacific

## Fully Integrated, Reliable, Efficient



# Global Strength, Local Partnership

With 90 years experience in power generation we can match the right generating, transfer and control technologies with your power need – be it continuous, prime, peaking, standby, cogeneration or a complete turnkey power plant.

Our global network of 600 distributors and 6,000 sales and service outlets across 190 countries guarantees a face-to face relationship wherever our products are operating, providing you with fast access to reliable service, engineering expertise and parts support.

## Total solutions provider

Cummins Power Generation is a world leader in the design and manufacture of pre-integrated generator sets, ranging from 8 kVA to 3300 kVA.

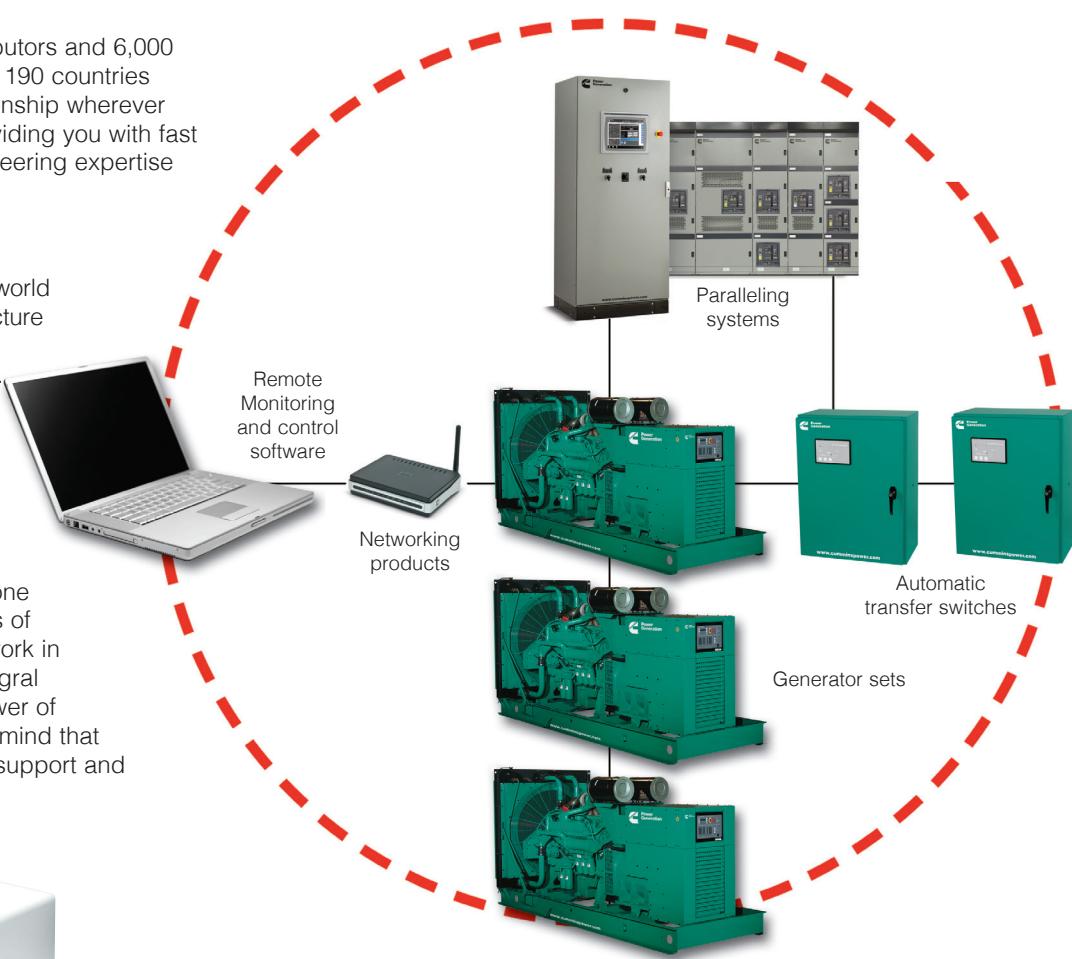
All major components – engine, alternator, transfer switches and control systems – are designed and manufactured by Cummins.

Because they are designed by one manufacturer, all of the elements of our power generation systems work in harmony from the start. This integral approach – what we call the Power of One™ – gives you the peace of mind that comes from premium customer support and reliable, trouble-free operation.



## What makes us different?

Cummins Power Generation is about more than innovative technologies meeting your needs. The key difference is our people, who live by a simple set of rules we call "The Three Rs".



## Reliability

When you need real power you can depend on us to deliver unrivalled reliability. We do what we say we will, and more. We keep our promises.

## Relationships

At Cummins you are in touch with real people you can trust and rely on. Wherever and whenever you need us, we'll be there for you.

## Responsiveness

We guarantee same-day answers, turnkey solutions, quick delivery, split-second start-up and a phone that is answered 24 hours a day, 7 days a week.

# Low-Emissions Technologies

Meeting the latest emissions requirements with our fully integrated generator sets applications.

## We are committed to meeting or exceeding clean air standards worldwide.

Leading the industry in advanced emissions solutions, we ensure that our generator sets meet U.S. EPA and EU emissions standards wherever possible.

Our strong history of emission leadership has enabled us to develop our own emission solutions package in accordance with EPA and EU regulations and requirements.

## Developing products for a cleaner tomorrow

Cummins Power Generation leads the industry in the development of cleaner, quieter and more efficient diesel-powered generator sets. We are committed to meeting or exceeding all global air quality regulatory standards for stationary and nonroad diesel-engine generator sets through 2017 and beyond. This protects public health and conserves vital natural resources.

## New technologies to reduce emissions

Since 1996 in the US (EPA) and 1999 in the EU when emissions regulations for nonroad diesel engines first went into effect, Cummins Power Generation has developed technologies that reduce the primary pollutants in the exhaust of a diesel generator set by approximately 80 percent. Pollutants such as nitrogen oxides (NOx), hydrocarbons (HC) and particulate matter (PM) from diesel engines are precursors to smog and ozone in many populated areas of the world. All our emissions-reduction technologies are accomplished through in-cylinder design improvements and precise control of the combustion process.

"The Royal North Shore hospital in Sydney, Australia chose a Cogeneration solution from Cummins Power Generation to meet emission targets and improve energy efficiency as part of a major expansion."



# Diesel Generator Sets -

## 8 kVA to 550 kVA (50 Hz)

Powered by heavy-duty Cummins engines, PowerCommand® diesel generator sets are known for their fuel efficiency, responsive transient performance and rugged reliability.

Power Output 50Hz Open Set

Model	Standby Ratings		Prime Ratings		Engine Model	Emissions Compliance EU/TAL/EPA	Standard Alternator	Standard Controller	Dimensions (mm) L x W x H	Wet Weight* (kg)	Tank (L)
	kVA	kW	kVA	kW							
C8 D5	8.25	6.6	7.5	6	X1.3-G2		PI044D	PS0500	N/A**	N/A**	100
C11 D5	11	8.8	10	8	X1.3-G2		PI044E	PS0500	N/A**	N/A**	100
C17 D5	16.5	13	15	12	X2.5-G2		PI044G	PS0500	1667 x 930 x 1247	582	150
C22 D5	22	17	20	16	X2.5-G2		PI144D	PS0500	1667 x 930 x 1247	582	150
C28 D5	27.5	22	25	20	X2.5-G2		PI144F	PS0500	1667 x 930 x 1247	605	150
C33 D5	33	26.4	30	24	X3.3-G1		PI144G	1.1	1753 x 930 x 1250	875	175
C38 D5	38	30.4	35	28	X3.3-G1		PI144H	1.1	1753 x 930 x 1250	910	175
C44 D5	44	35	40	32	S3.8-G4		UCI224C	PS0500	2115 x 1044 x 1516	1105	100
C55 D5	55	44	50	40	S3.8-G6		UCI224D	PS0500	2115 x 1044 x 1516	1120	100
C66 D5	66	52	60	48	S3.8-G7		UCI224F	PS0500	2115 x 1044 x 1516	1105	100
C44 D5e	44	35.2	40	32	4BT3.3-G3	II	UCI224C	1.1	1753 x 930 x 1256	776	107
C55 D5e	55	44	50	40	4BT3.3-G3	II	UCI224D	1.1	1753 x 930 x 1256	776	107
C90 D5	90	72	82	65	6BTA5.9-G5		UCI224G	1.2	2268 x 1094 x 1576	1555	350
C110 D5	110	88	100	80	6BTA5.9-G5		UCI274C	1.2	2268 x 1094 x 1576	1574	350
C150 D5	150	120	136	109	6BTA5.9-G2		UCI274E	1301	2404 x 1100 x 1472	1206	310
C175 D5e	175	140	158	126	QSB7-G5	IIIA / T3	UCI274F	1.2	2656 x 1100 x 1658	1572	530
C200 D5e	200	160	182	146	QSB7-G5	IIIA / T3	UCI274H	1.2	2656 x 1100 x 1658	1670	530
C220 D5e	220	176	200	160	QSB7-G5	IIIA / T3	UCI274H	1.2	2656 x 1100 x 1658	1670	530
C250 D5	250	200	227	182	6CTAA8.3-G2	4g	UCDI274J	1301	2686 x 1300 x 1547	2000	376
C275 D5	275	220	250	200	QSL9-G5	4g	UCDI274K	1.2	3135 x 1100 x 1928	2347	569
C300 D5	300	240	275	220	QSL9-G5	4g	HCI4D	1.2	3549 x 1100 x 1928	2570	569
C330 D5	330	264	300	240	QSL9-G5	4g	HCI4D	1.2	3135 x 1100 x 1928	2570	569
C350 D5	350	280	320	256	NT855-G6		HCI4E	2100	3549 x 1100 x 2078	3386	674
C400 D5	400	320	360	288	NTA855-G4		HCI4F	2100	3549 x 1100 x 2078	3563	674
C440 D5	440	352	400	320	NTA855-G7		HCI5C	2100	3549 x 1100 x 2115	3683	674
C400 D5e	400	320	364	291.2	QSX15-G8	II	HCI4F	2.2	3427 x 1500 x 2066	3878	711
C450 D5e	450	360	409	327.2	QSX15-G8	II	HCI5C	2.2	3427 x 1500 x 2066	4121	711
C500 D5e	500	400	455	364	QSX15-G8	II	HCI5C	2.2	3427 x 1500 x 2066	4121	711
C550 D5e	550	440	500	400	QSX15-G8	II	HCI5D	2.2	3427 x 1500 x 2066	4975	711

\* Without fuel

\*\* Not applicable, enclosed set only



C28 D5



C220 D5e / C200 D6



C330 D5 / C300 D6



C550 D5e

# Diesel Generator Sets -

## 12 kW to 500 kw (60 Hz)

Integrated design and manufacturing combine to give you unequalled reliability, power quality, rated performance and efficient operation.

Power Output 60Hz Open Set

Model	Standby Ratings		Prime Ratings		Engine Model	Emissions Compliance EU/TAL/EPA	Standard Alternator	Standard Controller	Dimensions (mm) L x W x H	Wet Weight* (kg)	Tank (L)
	kVA	kW	kVA	kW							
C12D6	15	12	13	11	X2.5-G4		PI044F	PS0500	1667 x 930 x 1247	569	150
C16D6	20	16	18	15	X2.5-G4		PI044H	PS0500	1667 x 930 x 1247	569	150
C20D6	25	20	22	18	X2.5-G4		PI144D	PS0500	1667 x 930 x 1247	582	150
C30D6	37.5	30	33.8	27	X3.3-G2		PI144G	1.1	1753 x 930 x 1250	875	175
C35D6	43.8	35	40	32	X3.3-G2		PI144H	1.1	1753 x 930 x 1250	910	175
C40 D6	50	40	45	36	S3.8-G8		UCI224C	PS0500	2115 x 1044 x 1516	1105	150
C50 D6	62.5	50	56.3	45	S3.8-G9		UCI224D	PS0500	2115 x 1044 x 1516	1120	150
C60 D6	75	60	67	54	S3.8-G10		UCI224E	PS0500	2115 x 1044 x 1516	1145	150
C40 D6	50	40	45	36	4BT3.3-G3		UCI224C	1.1	1753 x 930 x 1256	776	107
C50 D6	62.5	50	56.3	45	4BT3.3-G3		UCI224D	1.1	1753 x 930 x 1256	776	107
C80 D6	100	80	90	72	6BTA5.9-G6		UCI224G	1.2	2268 x 1094 x 1576	1574	350
C100 D6	125	100	114	91	6BTA5.9-G6		UCI274C	1.2	2268 x 1094 x 1576	1598	350
C135 D6	169	135	153	122	6BTA5.9-G2		UCI274E	1301	2404 x 1100 x 1472	1206	310
C150 D6e	188	150	169	135	QSB7-G5	T3	UCI274F	1.2	2656 x 1100 x 1658	1572	530
C175 D6e	218	175	200	160	QSB7-G5	T3	UCI274H	1.2	2656 x 1100 x 1658	1670	530
C200 D6e	250	200	225	180	QSB7-G5	T3	UCI274H	1.2	2656 x 1100 x 1658	1670	530
C225 D6	281	225	256	205	6CTAA8.3-G2		UCDI274J	1301	2686 x 1300 x 1547	2000	376
C250 D6	313	250	282	225	QSL9-G5		UCDI274K	1.2	3086 x 1360 x 1928	2570	569
C275 D6	344	275	313	250	QSL9-G5		HCI4D	1.2	3086 x 1360 x 1928	2570	569
C300 D6	375	300	344	275	QSL9-G5		HCI4D	1.2	3086 x 1360 x 1928	2570	569
C350 D6	438	350	400	320	NTA855-G3		HCI4F	2100	3549 x 1100 x 2078	3563	674
C400 D6	500	400	456	365	NTA855-G5		HCI5C	2100	3549 x 1100 x 2115	3683	674
C450 D6e	562	450	511	409	QSX15-G9	T2	HCI5C	2.2	3427 x 1500 x 2066	4121	811
C500 D6e	625	500	568	455	QSX15-G9	T2	HCI5D	2.2	3427 x 1500 x 2066	4271	811

\* Without fuel

\*\* Not applicable, enclosed set only

High-performance, low-reactance Cummins-manufactured alternators provide good voltage waveform and exceptional motor starting in demanding applications such as data centers, hospitals and industrial facilities.

Cooling systems are prototype-tested to provide guaranteed performance in high ambient temperatures.

Our generator sets are controlled by the world's first fully integrated microprocessor-based control system. This seamlessly integrates governing, voltage regulation, generator set control and protection functions to provide:

- Rapid product availability
- Proven reliability and low life-cycle costs
- High efficiency and operational flexibility
- High-quality electrical performance
- Well-established service and fuel supply infrastructure



# Diesel Generator Sets -

## 700 kVA to 3300 kVA (50 Hz) / 600 kW to 2750 kW (60 Hz)

Power Output 50Hz Open Set

Model	Standby Ratings		Prime Ratings		Engine Model	Emissions Compliance EU/TAL/EPA	Standard Alternator	Standard Controller	Dimensions (mm) L x W x H	Wet Weight* (kg)	Tank
	kVA	kW	kVA	kW							(L)
C700 D5	706	565	640	512	VTA28-G5		HCI5F	3.3	4047 x 1608 x 1942	5760	option
C825 D5A	825	660	750	600	VTA28-G6		HCI6G	3.3	4047 x 1608 x 2187	6040	option
C825 D5	825	660	750	600	QSK23-G3		HCI6G	2100	4266 x 1879 x 2052	6528	option
C900 D5	900	720	820	656	QSK23-G3		HCI6H	2100	4266 x 1879 x 2052	6680	option
C1000 D5	1041	832.8	939	751.2	QST30-G3		HCI6J	3.3	4297 x 1685 x 2079	6296	option
C1100 D5	1110	888	1000	800	QST30-G4		HCI6K	3.3	4571 x 1702 x 2332	7374	option
C1100 D5B	1132	906	1029	823	KTA38-G5		HCI6K	3.3	4470 x 1785 x 2229	8350	option
C1250 D5A	1250	1000	1125	900	KTA38-G9		PI734A	3.3	4387 x 2083 x 2228	9040	option
C1400 D5	1400	1120	1250	1000	KTA50-G3		PI734B	3.3	5283 x 2066 x 2233	10075	option
C1675 D5	1675	1340	1400	1120	KTA50-G8		PI734D	3.3	5690 x 2033 x 2330	10324	option
C1675 D5A	1675	1340	1500	1200	KTA50-GS8		PI734D	3.3	5690 x 2033 x 2330	10324	option
C1760 D5e	1760	1408	1600	1280	QSK60-GS3	2g	PI734D	3201	6175 x 2494 x 3422	15736	option
C2000 D5e	2000	1600	1825	1460	QSK60-GS3	2g	PI734F	3201	6175 x 2494 x 3422	16258	option
C2000 D5	2063	1650	1875	1500	QSK60-G3		PI734F	3201	6175 x 2286 x 2537	15152	option
C2250 D5	2250	1800	2000	1600	QSK60-G4		PI734G	3201	6175 x 2286 x 2537	15510	option
C2500 D5A	2500	2000	2250	1800	QSK60-G8	4g	LVS1804S	3201	6175 x 2494 x 3166	17217	option
C2750 D5	2750	2200	2500	2000	QSK78-G9	4g	LVS1804R	3.3	5668 x 2313 x 2300	20616	-
C3000 D5	3000	2400	2750	2200	QSK78-G9	4g	LVS1804S	3.3	5668 x 2313 x 2300	20616	-
C3300 D5	3325	2660	3000	2400	QSK78-G6		LVS1824G	3200	5668 x 2313 x 2300	20216	-

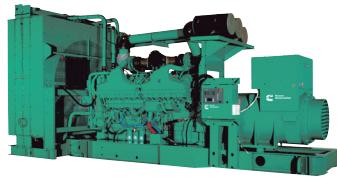
Power Output 60Hz Open Set

Model	Standby Ratings		Prime Ratings		Engine Model	Emissions Compliance EU/TAL/EPA	Standard Alternator	Standard Controller	Dimensions (mm) L x W	Wet Weight* (kg)	Tank
	kVA	kW	kVA	kW							(L)
C600 D6	754	603	681	545	VTA28-G5		HCI5F	3.3	4047 x 1608 x 1942	5760	option
C750 D6	938	750	850	680	QSK23-G3		HCI6H	2100	4266 x 1879 x 2052	6528	option
C800 D6	1000	800	906	725	QSK23-G3		HCI6H	2100	4266 x 1879 x 2052	6528	option
C900 D6	925	1156	835	1044	QST30-G3		HCI6J	3.3	4297 x 1685 x 2079	7374	option
C1000 D6	1265	1012	1150	920	QST30-G4		HCI6K	3.3	4571 x 1702 x 2332	7374	option
C1000 D6B	1276	1020	1160	928	KTA38-G4		HCI6K	3.3	4470 x 1785 x 2229	8350	option
C1250 D6	1588	1270	1400	1120	KTA50-G3		PI734B	3.3	5105 x 2000 x 2238	10075	option
C1500 D6	1931	1545	1608	1286	KTA50-G9		PI734C	3.3	5690 x 2033 x 2330	10326	option
C2000 D6	2000	2500	2281	1825	QSK60-G6		PI734F	3201	6175 x 2286 x 2537	15366	option
C2250 D6A	2813	2250	NA	N/A	QSK60-G9		PI734G	3201	6175 x 2494 x 3166	17217	option
2500 DQLC	3125	2500	2920	2336	QSK78-G6		LVS1804R	3201	5458 x 2251 x 2535	23000	-
2750 DQLD	3438	2750	3125	2500	QSK78-G8		LVS1804S	3201	5458 x 2251 x 2535	23000	-

\* Without fuel



C3000 D5



C2250 D5

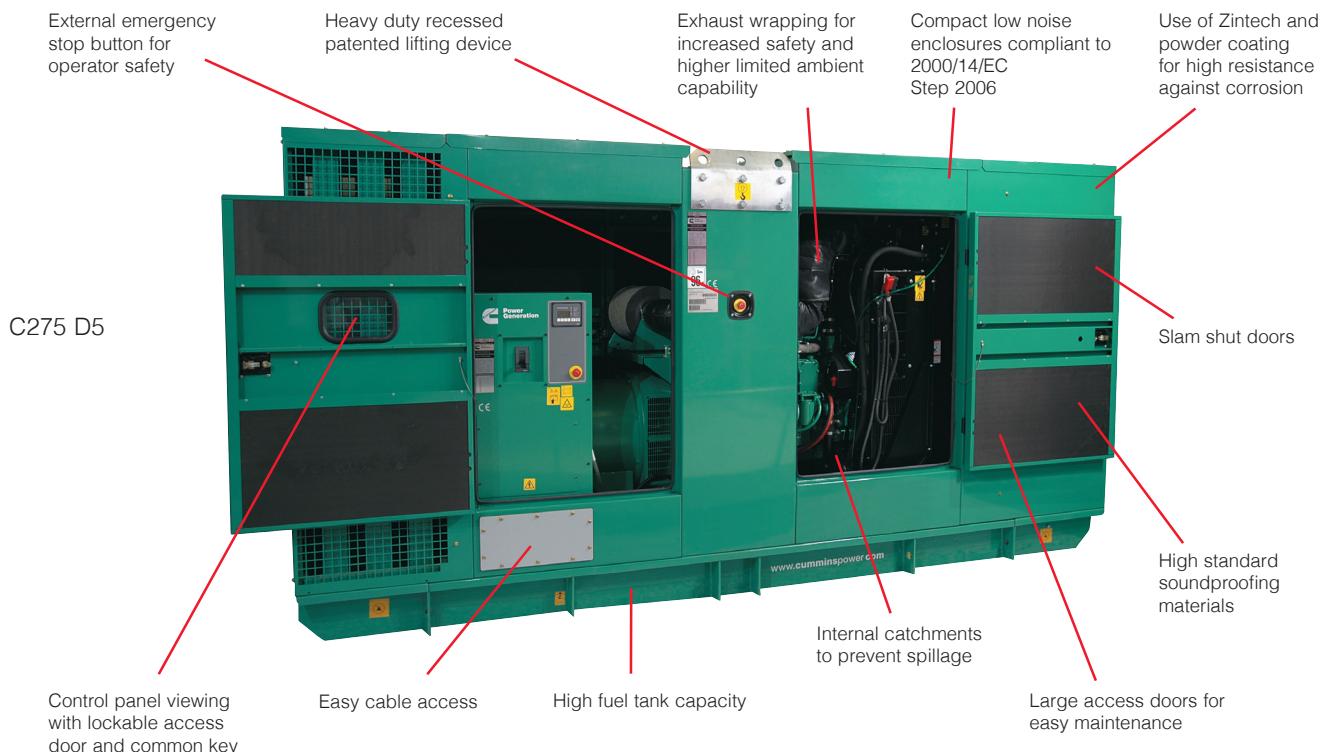


C1000 D5 / C900 D6

# Enclosures

Sound-attenuated and weather protective enclosures from Cummins Power Generation meet even the strictest sound requirements and provide optimum protection from inclement weather.

- Patented recessed lifting arrangement for easier access
- Compact footprint, low-profile design
- Easy access to all major generator and engine control components for servicing
- Fully housed, enclosed exhaust silencer ensures safety and protects against rust
- All-steel construction with stainless steel hardware offers durability
- Direct-mounted to a sub-base fuel tank or lifting base
- Many options available to meet application needs
- Meet or exceed EU legislation 2000/14/EC Step 2006



# Enclosed Sets - 50 Hz and 60 Hz

Pre-assembled, pre-integrated and delivered as part of the entire power system, these enclosures are designed to speed installation time and reduce cost.

Model	Standby kVA 50 Hz	Dimensions (mm) L x W x H	Wet Weight^ (kg)	Sound Levels		Tank (L)	
Power output 50 Hz							
C8 D5	8	1460 x 850 x 1130	596	69	58	100	
C11 D5	11	1460 x 850 x 1130	596	72	62	100	
C17 D5	17	2082 x 930 x 1448	907	74	63	150	
C22 D5	22	2082 x 930 x 1448	907	74	63	150	
C28 D5	27.5	2082 x 930 x 1448	930	74	63	150	
C33 D5	33	2242 x 967 x 1513	1235	75	65	175	
C38 D5	38	2242 x 967 x 1513	1270	75	65	175	
C44 D5	44	2300 x 1100 x 1650	1250	77	68	100	
C55 D5	55	2300 x 1100 x 1650	1300	77	68	100	
C66 D5	66	2300 x 1100 x 1650	1350	77	68	100	
C44 D5e	44	2245 x 969 x 1575	1029	71	62	107	
C55 D5e	55	2245 x 969 x 1575	1100	71	62	107	
C90 D5	90	2710 x 1050 x 1853	1818	78	69	200	
C110 D5	110	2710 x 1050 x 1853	1843	78	69	200	
C150 D5	150	2920 x 1136 x 2062	2102	76	67	310	
C175 D5e	175	3900 x 1100 x 2062	3108	77	69	513	
C200 D5e	200	3900 x 1100 x 2062	3206	76	68	513	
C220 D5e	220	3900 x 1100 x 2062	3206	77	69	513	
C250 D5	250	3581 x 1360 x 2170	3296	76	68	376	
C275 D5	275	4254 x 1424 x 2215	3924	77	69	569	
C300 D5	300	4254 x 1424 x 2215	4147	77	69	569	
C330 D5	330	4254 x 1424 x 2215	4147	77	69	569	
C350 D5	350	5110 x 1563 x 2447	4798	77	70	811	
C400 D5	400	5110 x 1563 x 2447	4975	76	69	811	
C440 D5	440	5110 x 1563 x 2447	5095	76	69	811	
C400 D5e	400	5106 x 1553 x 2447	5183	76	69	711	
C450 D5e	450	5106 x 1553 x 2447	5426	77	69	711	
C500 D5e	500	5106 x 1553 x 2447	5426	77	69	711	
C550 D5e	550	5106 x 1553 x 2447	5576	77	70	711	
Power output 60 Hz							
C12 D6	15	2082 x 930 x 1448	894	75	65	150	
C16 D6	20	2082 x 930 x 1448	894	75	65	150	
C20 D6	25	2082 x 930 x 1448	907	75	65	150	
C30 D6	37.5	2242 x 967 x 1513	1235	75	65	175	
C35 D6	43.8	2242 x 967 x 1513	1270	75	65	175	
C40 D6	50	2300 x 1100 x 1650	1250	81	71	100	
C50 D6	62	2300 x 1100 x 1650	1300	81	71	100	
C60 D6	75	2300 x 1100 x 1650	1350	81	71	100	
C40 D6	50	2245 x 969 x 1575	1029	74	64	107	
C50 D6	62.5	2245 x 969 x 1575	1100	74	65	107	
C80 D6	100	2710 x 1050 x 1853	1818	79	67	200	
C100 D6	125	2710 x 1050 x 1853	1843	79	67	200	
C135 D6	169	2920 x 1136 x 2062	2102	83	74	310	
C150 D6e	188	3900 x 1100 x 2062	3108	77	69	513	
C175 D6e	218	3900 x 1100 x 2062	3206	77	69	513	
C200 D6e	250	3900 x 1100 x 2062	3206	77	69	513	
C225 D6	281	3581 x 1360 x 2170	3296	84	75	376	
C250 D6	313	4254 x 1424 x 2215	3924	80	72	569	
C275 D6	344	4254 x 1424 x 2215	4147	80	72	569	
C300 D6	375	4254 x 1424 x 2215	4147	80	72	569	
C350 D6	438	5110 x 1563 x 2447	4975	81	74	811	
C400 D6	500	5110 x 1563 x 2447	5095	81	74	811	
C450 D6e	562	5106 x 1553 x 2447	5292	78	71	711	
C500 D6e	625	5106 x 1553 x 2447	5442	78	71	711	

^ Without Fuel      \* @ 75% load unless otherwise stated

All levels in accordance with European Noise Directive (2000/14/EC)



# PowerBox - 50 Hz and 60 Hz

The PowerBox is available in two sizes and noise levels compliant with EC regulations 2000/14/EC Step 2006 and is designed with 4 x ISO corner and pole slots for shipment.

- 20'/40' ISO container (CSC certified)
- Acoustic baffles for the air inlet and outlet
- Sandwich mineral wool attenuation
- Fuel tank standard
- Wooden internal floor
- 2 side doors with recessed stainless steel hinges
- 24 volt lighting with timer
- Residential silencer with stainless steel flexible bellows



PowerBox 20S

PowerBox 40S

Model	PowerBox Model	Tank (Optional)	Dimensions	Tank (Standard)	Silent Power	
Power output 50 Hz						
C700 D5	PB-20S	500L	20' ISO	-	79	72
C825 D5A	PB-20S	500L	20' ISO	-	TBA	TBA
C1000 D5	PB-20S	500L	20' ISO	-	84	77
C1400 D5	PB-40S	500L, 2000L	40' ISO HC	-	82	77
C1675 D5	PB-40S	500L, 2000L	40' ISO HC	-	82	77
C1675 D5A	PB-40S	500L, 2000L	40' ISO HC	-	82	77
Power output 60 Hz						
C600 D6	PB-20S	500L	20' ISO	-	83	76
C900 D6	PB-20S	500L	20' ISO	-	90	84
C1250 D6	PB-40S	500L, 2000L	40' ISO HC	-	TBA	TBA
C1500 D6	PB-40S	500L, 2000L	40' ISO HC	-	TBA	TBA

\* @ 75% load unless otherwise stated      - Not available

# PowerCommand® Generator Set Controls

PowerCommand controls provide you reliable, cost-effective solutions for integrated digital paralleling.

Only generator sets from Cummins Power Generation are available with industry-leading PowerCommand controls. Standard features include not only integrated digital governing and voltage regulation, but also analogue and

digital metering, digital engine monitoring systems, smart-starting systems, battery monitoring systems, AmpSentry™ true alternator protection and more.

Main Features	PowerCommand Generator Control						
	PS0500	1301	1.1/1.2	2100	2.2	3201	3.3
<b>General</b>							
AVR	-	•	•	•	•	•	•
Electronic Governing	-	•	•	•	•	•	•
Glow plug control	•	•	•	•	•	-	•
Cycle cranking	•	•	•	•	•	•	•
Full authority engine control	-	•	•	•	•	•	•
Networking (LonWorks)	-	-	-	•	-	•	-
Networking (ModBus)	-	•	•	-	•	•	•
Fault history	•	•	•	•	•	•	•
<b>Operator interface</b>							
Manual start/stop	•	•	•	•	•	•	•
Auto/remote start	•	•	•	•	•	•	•
Exercise function	-	-	-	•	•	•	•
Auto LED	•	•	•	-	•	-	•
Not in Auto LED	•	•	•	•	•	•	•
Manual LED	•	•	•	•	•	•	•
Common Shutdown LED	•	•	•	•	•	•	•
Common Warning LED	•	•	•	•	•	•	•
Exercise LED	-	-	-	•	•	•	•
Emergency stop (local and remote)	•	•	•	•	•	•	•
Alphanumeric screen	•	•	•	•	•	•	•
Remote start input active led	•	•	•	•	•	•	•
Fault reset	•	•	•	•	•	•	•
<b>Measurement &amp; Instrumentation - Engine</b>							
Oil Pressure	•	•	•	•	•	•	•
Oil Temperature	-	-	-	•	•	-	•
Water Temperature	•	•	•	•	•	•	•
Engine Speed	•	•	•	•	•	•	•
Hours Run	•	•	•	•	•	•	•
Number of Starts	•	•	•	•	•	•	•
Battery Voltage	•	•	•	•	•	•	•
Exhaust Temperature	-	-	-	-	-	•	-
<b>Measurement &amp; Instrumentation - Alternator</b>							
3 Phase L-L & L-N Voltage & Frequency	•	•	•	•	•	•	•
3 Phase Current	•	•	•	•	•	•	•
kWh	-	-	-	•	•	•	•
Total kVA	•	•	•	•	•	•	•
Total kW & kVar	-	-	-	•	•	•	•
PF	-	-	-	•	•	•	•
Per Phase kVar, kW	-	-	-	•	•	•	•
Per Phase kVA	•	•	•	-	•	•	•
<b>Shutdown Protection &amp; Indication - Engine</b>							
Low Fuel Level	-	•	•	•	•	•	•
High Fuel Level	-	-	-	•	•	-	•
Low Oil Pressure	•	•	•	•	•	•	•
High Engine Coolant temperature	•	•	•	•	•	•	•
Failure to Crank Shutdown	•	•	•	•	•	•	•
Over Crank (Failure to Start)	•	•	•	•	•	•	•
Overspeed	-	•	•	•	•	•	•

Main Features	PowerCommand Generator Control						
	PS0500	1301	1.1	2100	2.2	3201	3.3
<b>Shutdown Protection &amp; Indication - Alternator</b>							
Under & Over Voltage	•	•	•	•	•	•	•
Under & Over Frequency	•	•	•	•	•	•	•
Overcurrent	-	•	•	•	•	•	•
Earth Leakage	-	•	•	•	•	•	•
Reverse Power	-	-	-	•	•	•	•
Reverse Var	-	-	-	•	•	•	•
<b>Threshold Warning Indications</b>							
Low Oil Pressure	•	•	•	•	•	•	•
Low Engine Coolant Temperature	•	•	•	•	•	•	•
High Engine Coolant Temperature	•	•	•	•	•	•	•
Low Coolant Level	-	-	-	•	•	•	•
Low Battery Voltage	•	•	•	•	•	•	•
High Battery voltage	•	•	•	•	•	•	•
Battery Alternator Charge Fault	-	•	•	-	-	-	-
Over Current	-	•	•	•	•	•	•
Overload	-	•	•	-	•	-	•
<b>Paralleling Capability</b>							
Auto Synchronizing (Isolated Bus)	-	-	-	-	-	•	•
kW & Var Load Sharing Control	-	-	-	-	-	•	•
Auto Synchronizing (Utility Bus)	-	-	-	-	-	•	•
Base Load	-	-	-	-	-	•	•
Synchroscope	-	-	-	-	-	•	•
Peak Lopping	-	-	-	-	-	-	•
<b>Power Transfer Function</b>							
Open Transition Transfer	-	-	-	-	-	•	•
Hard Closed Transition	-	-	-	-	-	•	•
Soft Closed Transition (ramping)	-	-	-	-	-	•	•
Transfer & Base Load (Utility)	-	-	-	-	-	•	•
Gen/Mains Breaker Control	-	-	-	-	-	•	•
Gen/Mains Breaker Status Protection	-	-	-	-	-	•	•
<b>Environment</b>							
Operating Temp. Range -40°C to +70°C	-	•	•	•	•	•	•
Operating Temp. User Interface -20°C to +70°C	•	•	•	•	•	•	•
Humidity up to 95% (non condensing)	•	•	•	•	•	•	•
<b>Codes &amp; Standards</b>							
CE Compliant	•	•	•	•	•	•	•
NFPA110	-	•	•	•	•	•	•
UL508 Listed	-	-	-	•	•	•	•
UL Certified	-	•	•	•	•	•	•
<b>Controller Inputs/Outputs</b>							
Digital Inputs (shutdown, warning or status)	1	2	4	4	4	4	4
Relay Outputs	1	2	2	4	4	4	4
Configurable Input/Output	-	•	•	•	•	•	•

● Standard

● Option

- Not Available



PCC1301/PCC 1.1



PCC2100 with optional Bargraph fitted.



PCC3201



PCC 1.2/2.2



PCC 3.3

# Automatic Transfer Switches

PowerCommand® automatic transfer switches communicate directly with the generator set controller, providing more reliable communication across the entire system.

PowerCommand automatic transfer switches feature microprocessor-based control technology for easy operation and robust, high-contact-force design to withstand thousands of switching cycles. Applications include utility-to-generator-set, utility-to-utility or generator-set-to-generator-set. Open transition switches can be adjusted to completely disconnect the load from both sources for a programmed time period to prevent unnecessary circuit breaker tripping and load damage.

Major features include:

- UL 1008-listed withstand and closing ratings up to 200kA
- Convenient front-panel display to easily review power and load conditions, make adjustments, review events, and check network status
- Service entrance configurations to 1000 amps
- 40- 1250 amp switches meet IEC 60947-6-1 AC31A

## Closed-transition transfer switches

For critical applications where even a momentary loss of power makes a difference, closed transition provides make-before-break transfer between live sources by momentarily paralleling the two sources.



Automatic Transfer Switches

● Standard

● Option

- Not Available

Main Features	Automatic Transfer Switches			
	GTEC	OTPC	BTPC	CHPC
<b>Specifications</b>				
Duty	Light	Heavy	Heavy	Heavy
Amp Range	40 - 2000	40 - 4000	150 - 4000	125-800
(Select the ATS to suit the largest-sized supply (amps) that will be applied to the ATS)				
Voltage Rating	up to 480 VAC	up to 600 VAC	up to 600 VAC	up to 600 VAC
Phases	1 or 3	1 or 3	1 or 3	1 or 3
Frequency	50 or 60 Hz	50 or 60Hz	50 or 60 Hz	50 or 60 Hz
Poles	2,3,4	3,4	3,4	2,3,4
Warranty	1 year	up to 10 years	up to 10 years	up to 10 years
Operating Temperature Range (°C)	-30 to 60 °C	-40 to 60 °C	-40 to 60 °C	-40 to 60 °C
<b>Switch Mechanism</b>				
Open Transition	•	•	•	•
Closed Transition	-	-	-	•
Closed Transition 1000 to 4000 Amps	-	•	-	-
Programmed Transition	•	•	-	•
Bypass Isolation - Open Transition	-	-	•	-
Bypass Isolation - Closed Transition	-	-	•	-
Bypass Isolation - Programmed Transition	-	-	•	-
Utility-to-Genset	•	•	•	•
Utility-to-Utility	-	•	•	-
Genset-to-Genset	•	•	-	-
Mechanical Interlock	•	•	•	(disabled during closed transition)
Load Monitoring	-	•	•	•
WCR with Specified Circuit Breakers	25 - 65 kA	14-100 kA	14-100 kA	42-85 kA
WCR with Current Limiting Fuses	25 - 65 kA	200 kA	200 kA	200 kA
Manual Operation	Yes	Yes	Yes	Yes
<b>Control</b>				
Type of Control	Basic Micro	PCC L1	PCC L1	PCC L1
<b>Operator Panel</b>				
Load Connected to Normal LED	•	•	•	•
Normal Source Available LED	•	•	•	•
Load Connected to Emergency LED	•	•	•	•
Emergency Source Available LED	•	•	•	•
Load AC Metering Bar Graph	-	•	•	•
Alphanumeric Display	-	•	•	•
Panel Security Lock	-	•	•	•
<b>Control Functions</b>				
3-phase Voltage Sensing - Utility	•	•	•	•
3-phase Voltage Sensing - Generator	Single Phase	•	•	•
Electrical Isolation from AC - Mains	High Impedance	Transformer	Transformer	Transformer
O/U Voltage Sensing Utility	•	•	•	•
O/U Voltage Sensing Generator	U/V Only	•	•	•
Voltage Sensing Accuracy	+/-2%	+/-1%	+/-1%	+/-1%
O/U Frequency Sensing Utility	•	•	•	•
O/U Frequency Sensing Generator	U/F Only	•	•	•
Voltage Imbalance	-	Level 2 Cont	Level 2 Cont	•
Phase Rotation	-	Level 2 Cont	Level 2 Cont	•
Loss of Phase	-	•	•	•
Transfer Normal to Emergency (time)	0 - 300 secs	0 - 120 secs	0 - 120 secs	0 - 120 secs
Re-transfer Emergency to Normal (time)	0 - 30 mins	0 - 30 mins	0 - 30 mins	0 - 30 mins
Engine Start Delay (adjustable)	0 - 10 secs	0 - 120 secs	0 - 120 secs	0 - 120 secs
Time Delay to Engine Stop	0 - 30 mins	0 - 30 mins	0 - 30 mins	0 - 30 mins
Programmed Transition (time)	0 - 10 secs	0 - 60 secs	0 - 60 secs	0 - 60 secs
Fail to Disconnect Timer (closed transition)	-	-	-	•
Time & Date-Stamped Event Log	-	•	•	•
Historical Data Display	-	•	•	•
Remote Monitoring/Communication	-	•	•	•
System Data Display	-	•	•	•
Elevator Signal Module	•	•	•	•
Load Sequencing	-	•	•	•
Fully-Programmable Exerciser Clock	•	•	•	•
Exercise Clock	•	•	•	•
Real-Time Clock	-	•	•	•

# Digital Paralleling Systems & Switchgear

PowerCommand<sup>®</sup> paralleling systems are operated by DMC Digital Master Controls that interface directly with PowerCommand controller generator set optimizing performance and simplifying operation and service.

PowerCommand paralleling systems deliver the flexibility demanded by your complex applications. We use common control blocks with prototype-tested components. These systems deliver the features and performance you require and are supported by the industry's only local paralleling service organisation.

## Demonstrated Reliability

Integrated paralleling in the generator set controls offers fast synchronising. Any number of generator sets can be synchronised in less than 15 seconds in most applications.

PowerCommand paralleling systems give you demonstrated reliability:

- Industry-leading mean time before failure (MTBF) data
- Innovative failure mode effect analysis
- Prototype testing to validate system design
- Distributed logic designs that isolate issues by eliminating single points of failure



DMC1500

DMC300

Switchgear

# Digital Paralleling Systems & Switchgear

PowerCommand® paralleling systems are designed around dedicated-purpose controllers that are prototype-tested for reliability and performance.

FEATURE	DMC1000		DMC1500		DMC200		DMC300	
	Isolated Bus	Infinite Bus						
<b>Custom Features</b>								
Custom engineering required	-	-	-	-	•	•	-	-
<b>Genset Controller Compatibility</b>								
PowerCommand 3100	•	•	•	•	•	•	-	-
PowerCommand 3200	•	•	•	•	•	•	-	-
PowerCommand 3201	•	•	•	•	•	•	-	-
PowerCommand 3300	•	•	•	•	•	•	-	-
<b>System Start</b>								
Common system start directly to gens (bypasses PLC or MCM)	•	•	-	-	•	•	-	-
Common system start to genset based on DMC monitoring	-	•	•	•	•	•	-	-
Enable/Disable automatic start signal when system is in manual	•	•	•	•	•	•	-	-
Manual start and breaker open/close control of individual gensets from HMI	-	-	•	•	•	•	-	-
<b>Genset Paralleling</b>								
Parallel up to 4 gensets	•	•	•	•	•	•	-	-
Parallel up to 8 gensets	-	-	•	•	•	•	-	-
Parallel more than 8 gensets (requires custom touchscreen development)	-	-	-	-	•	•	-	-
<b>Load Demand</b>								
Fixed Sequence, non-PCC3300	•	-	•	-	•	•	-	-
Run Hour Sequence, non-PCC3300	•	-	•	-	•	•	-	-
Fixed Sequence, PCC3300	•	•	•	•	•	•	-	-
Run Hour Sequence, PCC3300	•	•	•	•	•	•	-	-
Multiple Load Busses	-	-	-	-	•	•	-	-
<b>Load Add/Shed</b>								
Priority Based - 6 Levels/6 Loads	•	•	•	•	•	•	-	-
Priority Based - 8 Levels/8 Loads	-	-	-	-	-	-	-	-
Priority Based - 10 Levels/10 Loads	-	-	•	•	•	•	-	-
Priority Based - 16 Levels/32 Loads	-	-	-	-	•	•	-	-
Capacity Based - single bus	-	-	-	-	•	•	-	-
Priority Based - multiple bus	-	-	-	-	•	•	-	-
Manual Load Add/Shed control	•	•	•	•	•	•	-	-
<b>System Test</b>								
Without Load	•	•	•	•	•	•	-	-
With Load	•	•	•	•	•	•	-	-
<b>System Scheduler (Exercise)</b>								
Test	•	•	•	•	•	•	-	-
Extended Parallel	-	•	-	•	•	•	-	-
<b>Extended Utility Paralleling kW Control</b>								
Genset Bus % Level (Open Loop/Base Load)	-	•	-	•	-	•	-	-
Genset kW (Open Loop/Base Load)	-	-	-	-	-	-	•	•
Individual Genset kW (Open Loop/Base Load)	-	-	-	-	-	-	•	•
Genset Bus kW (Closed Loop)	-	•	-	•	-	•	-	-
Genset Bus kW with Utility Constraint (Closed Loop/Base Load with export limit)	-	•	-	•	-	•	-	-
Utility Bus kW (Closed Loop/Peak Shave)	-	•	-	•	-	•	-	-

● Standard

● Option

- Not Available

FEATURE	DMC1000		DMC1500		DMC200		DMC300	
	Isolated Bus	Infinite Bus						
<b>Extended Utility Paralleling kVAR Control</b>								
Genset Controllers	-	-	-	-	-	-	-	•
Gen Bus % Level (Open Loop)	-	-	-	-	•	•	-	-
Genset Bus Power Factor (Open Loop)	-	-	-	-	•	•	-	-
Genset Bus kVAR (Closed Loop)	-	-	-	-	•	•	-	-
Genset Bus Power Factor (Closed Loop)	-	-	-	-	•	•	-	-
Utility Bus kVAR (Closed Loop)*	-	-	-	-	•	•	-	-
Utility Bus Power Factor (Closed Loop)	-	-	-	-	•	•	-	-
<b>Extended Paralleling Control</b>								
Auto Peak Shave or Base Load	-	-	-	-	•	•	-	-
<b>Power Transfer Transitions</b>								
Open Transition	-	-	-	-	•	•	-	-
Hard Closed Transition <100 ms	-	-	-	-	•	•	-	-
Hard Closed Transition non-ramping	-	-	-	-	•	•	-	-
Soft Closed Transition	-	-	-	-	•	•	-	-
<b>Utility Synchronizing</b>								
Slip Frequency	-	-	-	-	•	•	-	-
Phase Match	-	-	-	-	•	•	-	-
<b>NE Function</b>								
Neutral Earth Device Control	•	•	•	•	•	•	•	•
<b>Data communications, display, and alarming</b>								
Web Serving HMI Screens	-	-	-	-	-	-	•	•
Genset Summary data at the DMC	-	-	-	-	•	•	•	•
Real Time Trending	-	-	-	-	•	•	•	•
Historical Trending	-	-	-	-	•	•	-	-
Modbus RTU RS485 BMS Interface	•	-	-	-	•	•	•	•
Modbus RTU RS232	-	-	-	-	•	•	•	•
Modbus TCP/IP over Ethernet BMS Interface	-	-	-	-	•	•	•	•
Remote Genset and Network ATS monitoring with alarm paging and email	-	-	-	-	-	-	•	•
Supervisory Monitoring Station for on-site/off-site power systems	-	-	-	-	-	-	•	•
Network ATS Data Display	-	-	-	-	•	•	•	•
System Annunciator(s)	•	-	-	-	-	-	•	•
NFPA 110 Genset Annunciator	-	-	-	-	-	-	•	•
Audible Alarm	•	•	•	•	•	•	•	•
Diagnostics	•	•	•	•	•	•	•	•
<b>Operator Interface</b>								
HMI 211 Operator Interface	•	•	-	-	-	-	-	-
15" Color Touch Screen	-	-	•	•	•	•	•	•
19" Color Touch Screen	-	-	-	-	-	-	•	•
42" Color Touch Screen	-	-	-	-	-	-	•	•
<b>Redundant CPU</b>								
Hot Standby Redundant CPU and cabling	-	-	-	-	-	-	•	•
<b>Reports</b>								
JCAHO/Plant Test	-	-	-	•	•	•	•	•
Alarm History	-	-	-	•	•	•	•	•
<b>Codes and Standards Requirements</b>								
UL891	•	•	•	•	•	•	•	•
IEC	•	•	•	•	•	•	•	•
CSA	•	•	•	•	•	•	•	•
Seismic Zone 4	•	•	•	•	•	•	•	•
OSHPD Certified	•	•	•	•	•	•	•	•

# Software and Networking

PowerCommand® software and networking tools let you easily manage on-site and off-site power systems from one location.

Whether you're using a desktop computer, a laptop or a cell phone, PowerCommand remote monitoring systems help you reduce power setup time, operation and maintenance.

## PowerCommand accessories for reliable web-based monitoring

PowerCommand remote monitoring systems let you monitor generator set and transfer switch functions via the Internet. You can:

- Monitor remotely via wireless connection using cellular or satellite communications
- Communicate via an Ethernet connection, phone line or available wireless configuration
- Connect via an Internet browser on a remote PC
- Send alarms to cell phones, pagers or e-mail addresses
- Display voltage and frequency of each source
- Monitor one or two generator sets and up to four transfer switches



### Feature iWatch100

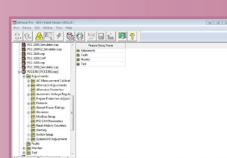
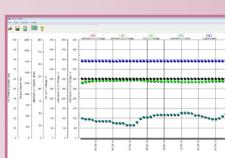
Web Browser Customer Interface
Single Site 4 Gensets and 4 ATS
Sends Emails on Alarm Conditions
SMS Messaging Configurable through an SMTP Email Server
Main Menu Page
Generator Set Data Display Page
Remote Annunciator Display Page
Transfer Switch Data Display Page
Remote ATS Annunciator Display Page
Digital Input/Output Display Page
Relay Outputs Display Page
Connects to PCC2100, 3100, 3200, 1.x, 2.x and 3.x Controllers
Configurable User Access Codes
Operating Temperature Range (0 to +50°C)
One-Year Warranty

## PowerCommand InPower™ for planned maintenance

PowerCommand InPower for service and planned maintenance provides both local and remote setup and diagnostics. The PC-based software allows a technician to "talk to" a remote PowerCommand system, determine its status and make adjustments.

An Internet browser interface provides easy access to PowerCommand InPower's useful functions:

- Strip charts — Obtain real-time recordings of changing conditions and performance
- Adjustments — Change system operating parameters
- Monitoring functions — Use real-time monitoring and data recording to simplify testing and diagnostics
- Report generation — Automatically record test data and formats for quick test reporting
- Fault simulations — Simulate warning or shutdown conditions



# Specifications and Options

## **Emergency Standby Power (ESP):**

Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. Emergency Standby Power (ESP) is in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

## **Limited-Time Running Power (LTP):**

Applicable for supplying power to a constant electrical load for limited hours. Limited Time Running Power (LTP) is in accordance with ISO 8528.

## **Prime Power (PRP):**

Applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528. Ten percent overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

## **Base Load (Continuous) Power (COP):**

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power (COP) in accordance with ISO 8528, ISO 3046, AS 2789, DIN 6271 and BS 5514.

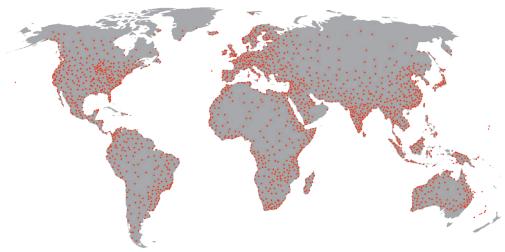
For comprehensive conditions of application including COP and LTP, please refer to factory.



## Extending your peace of mind with our suite of Extended Warranty Options

Every one of our generator sets is covered by a Base Warranty for round-the-year reliability. To further safeguard your investment, we'll extend that protection to cover of every major component in our generator sets anywhere in the world. You can choose from our suite of Extended Warranty coverages ranging from two years, five years to ten years to suit your specific needs before the original guarantee comes to an end.

For further details on all Extended Warranty options, please contact your local Cummins Power Generation distributor.



Cummins Power Generation's global operations include 44,000 employees in 190 countries, with 88 manufacturing facilities, 6000 sales & service centers and 600 distributor locations.



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en/locator](http://www.cumminspower.com/en/locator)

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