P600360.006

Communication Kit ComPact Series Power Supplies

Power Accessories



Description

ComPact All series products include an RS-485 communication bus and can be software defined using the ComPact Configuration Utility (CCU) Software. The CCU is designed for use by technical people to set up and debug a ComPact, before deployment into a tactical situation. The Communication Kit contains all the items required to connect a ComPact series product to a suitable Windows computer. The ComPact Configuration Utility Software allows status monitoring, alarm configuration, enable/disable features and firmware upgrades. A wide range of configurable parameters enable software customisation such as output voltage, current limit, alarm limits, and battery technology. The ComPact configuration utility is a free of charge Windows application available for download from the ComPact support page on the Comrod website.



Kit Contents

The Communication Kit contains all the hardware items required to connect a ComPact series power supply to a Windows computer.

Communication Kit (Part Number P600360.006)

Moxa UPort 11501 RS-485 adapter + accessories

Compact to PC Communication cable (Part Number P600333.150)

USB cable, USB-B male (UPort) to USB-A male

ComPact Configuration Utility

The ComPact Configuration Utility software is used for configuring, monitoring and upgrading the firmware on a ComPact series product. All functionality of the ComPact can be software configured including:

- AC input minimum voltage
- AC input current limit •
- DC output voltage
- DC output current/power limit
- Charging algorithms 2/3/4 stage charging, temperature compensated charging
- Parallel operation
- Alarm outputs
- Over temperature protection •
- DC cable voltage drop compensation
- Front panel user interface •
- Error handling
- Password protection (protects the ComPact from being reconfigured or firmware upgraded) •

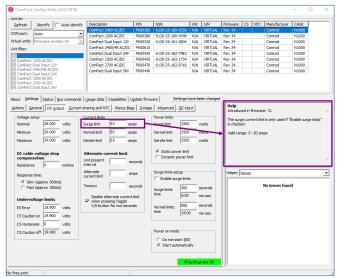
A configuration can be saved to file, and easily copied between ComPact series power supplies. The ComPact Configuration Utility can show, edit and create configurations without being connected to a Compact.



ComPact Configuration Utility (CCU)

Feature	Description
Settings	ComPact series power supplies allow for complete software customisation. Please refer to the ComPact Family Technical Reference for details.
	The CCU is intuitive and will flag if selected settings are incompatible. The allowable range of values will be shown in the built-in help.
	The CCU has built in help for all options
Temperature compensation	Temperature compensation settings are display both numerically and graphically.
Status	Shows detailed status of a ComPact
Commands	Commands that can be sent to the ComPact

Settings



When a value is being edited, the built in help will show a brief explanation, and show the valid range for a value.

Status

Refresh	Identify	Auto identify			P/N	NSN	HW	S/N	Firmware	CS	NTC	Manufacturer	CAGE	
OM port:			ComPact 2400 A	C/DC	P600360	6130-25-160-4350	N/A	VIRTUAL	Rev 34			Comrod	N1000	
	Auto	-	ComPact 1200 A	C/DC	P600380	6130-25-160-4349	N/A	VIRTUAL	Rev 34			Comrod	N1000	
rtual units:	Firmware re	rvision 34 🖉	ComPact Dual In	put 12V	P600320	6130-25-161-2806	N/A	VIRTUAL	Rev 34			Comrod	N1000	
it filter:			ComPact 2400/4	BAC/DC	P600510		N/A	VIRTUAL	Rev 34			Comrod	N1000	
it nuer:			ComPact Dual In	nut 24V	P600420	6130-25-162-7483		VIRTUAL	Rev 34			Comrod	N1000	
< ComPact	2400 AC/DC		ComPact 1500 A		P600450	6130-25-162-1734		VIRTUAL	Rev 34			Comrod	N1000	
	1200 AC/DC Dual Input 1		ComPact 2700 A		P600430	6130-25-162-9718		VIRTUAL	Rev 34			Comrod	N1000	
ComPact	2400/48 AC/	27	ComPact Dual In		P600470 P600440	0130-52-105-3710	N/A	VIRTUAL	Rev 34			Comrod	N1000	
ComPact	Dual Input 2 1500 AC/DC 2700 AC/DC Dual Input 3													
out Sett	ings Status	Bus commands	Usage data Capa	bilites U	gdate firmw	are Settings	have be	en changeo	Help					
Fatal erro	vs		Voltage	230.0	v	Voltage	0.0	v	Use this	to se	lect one	of several helpe	rs.	
F1Prin	nary watchdo C OVP	9	Frequency	50.0	Hz	Speed	0	RPM	None:	vis if v	ou do n	ot want to see a	ov beloers	
F7 Ou	tput OVP tput polarity		Active power	1433	w	Alarm relays			Issues:					
External	ald settings	_	DC output			□ 1 □ 2		🗸 3				 This is the sam settings to the ur 		you
E0 Pov	ver off		Charge stage	Absorpt					germe	ii sav	ing une :	seconds to one of		
	w mains voltag			_		DC input			Output	thara	cteristic	vs. battery temp	perature:	
	v mains frequ		Output enabled	Enabled		Voltage		V	Shows h	ow th	e outpu	it voltage (charg	e voltage) chan;	ges
	h mains frequ ertemperatur		Voltage	28.05	v	Ourrent	<u></u>	-	over ba	ttery	tempera	ture. If 3-stage	charging is	
	tout undervol		voltage			current	I	~						
E6 3 s	tage shutdow	n	Current	46.4	A	Ext sense Pos		v	Helper:	Dutou	it chara	cteristic vs. batte	erv temperature	
	input fail		Power	1302	w	Ext sense Neg	<u> </u>		11 - 1					
	-485 Break de tterv too hot/		Power	1302	w	Ext sense rveg		v	34V, 8	3A		^		
EC NT	C missing C error		Voltage reference	28.000	v	DC input charger				/			$\langle $	
EF Tes	stmode		Current limit	83.0	A	Battery		°C	11		~		1	
	artup in progr rrent limit acti		Battery	26.0	°C	Voltage ref		v	Legend			\mathcal{H}	$\left \right\rangle$	
	wer limit activ		Temperature			DC input alarms			Our			(\sim	
C3Fa	n failure		Hot spot	89.9	- °C				Volta			/		
	mperature ala				- 1				11				$1 \wedge 1$	
	tput undervo m error deter		Main chassis	59.9	°C				11				- Λ	
C7 Ter	mperature de °C missing		DI chassis		°C									
	C error bug caution valid settings		Open bar graph w			Automatically ope	n bar or	aph window	200, 0	4	-40°			100%

Temperature Compensation

efresh	Identify Auto identify	Description	P/N	NSN	HW	S/N	Firmware	CS	NTC	Manufacturer	CAGE	
		ComPact 2400 AC/DC	P600360	6130-25-160-4350	N/A	VIRTUAL	Rev 34			Conrod	N1000	
f port:	Auto 👻	ComPact 1200 AC/DC	P600380	6130-25-160-4349	N/A	VIRTUAL	Rev 34			Comrod	N1000	
al units:	Firmware revision 34 *	ComPact Dual Input 12V	P600320	6130-25-161-2806	N/A	VIRTUAL	Rev 34			Comrod	N1000	
filter:		ComPact 2400/48 AC/DC	P600610		N/A	VIRTUAL	Rev 34			Comrod	N1000	
	and the second	ComPact Dual Input 24V	P600420	6130-25-162-7483	N/A	VIRTUAL	Rev 34			Comrod	N1000	
ComPact	1200 AC/DC	ComPact 1500 AC/DC	P600450	6130-25-162-1734	N/A	VIRTUAL	Rev 34			Comrod	N1000	
	Dual Input 12V	ComPact 2700 AC/DC	P600470	6130-25-162-9718	N/A	VIRTUAL	Rev 34			Comrod	N1000	
	2400/48 AC/DC Dual Input 24V	ComPact Dual Input 36V	P600440		N/A	VIRTUAL	Rev 34			Comrod	N1000	
Powe	eneral DC gutput Qurrent s er group urrent sharing the share mode:	NTC (battery NTC mode C No NT G Auto C Warni C Error	temperature C	e sensor)	ut					p 1. This is the si chRef for details		it pani
(° A C s	utomaster	High temp	erature limit:	:	~							
	isable current sharing	Low temp	erature limit:	Not used	•		1 ·		t charac	teristic vs. batte	ry tempera	ture
Max p Max n	e compensation: sositive 1.000 volts regative 1.000 volts resistance 4 mohms	Temperat Derating J Derating E	Cut-off [ated charge current MC] Slope (amps/s 3 -1.5			34/, 83A Legend: Current limit			7		
- A	ctivate DC cable voltage drop impensation	A: Quadra B: Linear o Note: The	tic constant onstant	-44 mV/*C	:		Boost	voltag	2		1	

The temperature compensation characteristic is shown graphically in the bottom right corner.

Commands

About | Settings | Status Bus commands | Usage data | Capabilites | Update firmware |

Unit control (command 0x14) Start unit Stop unit	Display control (command 0x22 Override display and alarm LED's Green Red Y	relays C Autom C Stop	
Disable unsolicited	Alarm relays	larm 3	100%
Reset (command 0x04) Reset	C All off C All off C All on C Test pattern 1 C Test pattern 2	Display del 0: No deb Activat	ug mode 🗸 🗸
	Valid range: 5V to 34V Valid range: 5A to 83A	Read buttons (comm	Buttons pressed:

All specifications are subject to change without notice The information contained herein is for reference only and does not constitute a warranty of performance



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Partnered Supplier