

Наличие и актуальные цены на

DRS-480-36

https://www.mean-well.ru/store/DRS-480-36/











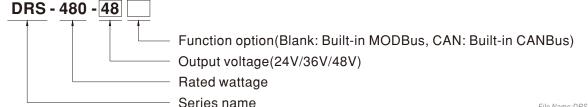


- Universal input 90~305VAC (277VAC available)
- · All-in-one function with Power supply, DC-UPS, battery charger and status monitoring in ONE compact unit
- and GB17945 requirement, with adjustable parameters configurable • Uninterruptible DC-UPS system, by communication interface
- Form C relay contacts and LED indicators for AC Fail, Battery Low, Charger Fail, and DC-OK
- Load-dependent high speed battery charging
- Built-in MODBus or CANBus protocol
- · Protections: Short circuit / Overload / Over voltage / Over temperature(auto derating) / Battery reverse polarity (No damage) / Battery cut off
- · Battery low protection / Battery reverse polarity protection
- -30 ~ +70 $^{\circ}$ C wide operating temperature
- · Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Charging curve can be set with SBP-001(only for CANBus model) (Smart programmer sold separately, please refer to: <u>https://www.meanwell.com/webapp/product/search.aspx?prod=SBP-001</u>)
- 20~100% charging current adjustable by VR
- 2 or 3-stage selectable by DIP S.W
- · Suitable for lead acid and lithium-ion batteries
- 3 years warranty

Description

DRS-480 is a 480W AC/DC DIN rail type security power supply series. In addition to the primary output, there is an additional charger circuit that will automatically adjust charge current depending on the primary output current. DRS-480 accepts the universal input between 90VAC and 305VAC, and supports output 24VDC, 36VDC, and 48VDC nominal systems. With high efficiency up to 93.5%, it can operate with free air convection cooling under -30°C through 70°C ambient temperature. In addition to the key protection features such as overload protection, over voltage protection, battery low voltage disconnect, and battery reverse polarity protection, the DRS-480 also provides Form-C contacts and LED indicator alarm signals for AC-fail, battery low, charger fail, and DC-OK to allow easy integration into security systems that comply with local alarm codes.

Model Encoding





Applications

- Public safety battery back-up (Red box)
- Security system
- Emergency lighting system
- battery detection system
- Central monitoring system
- Industrial automation

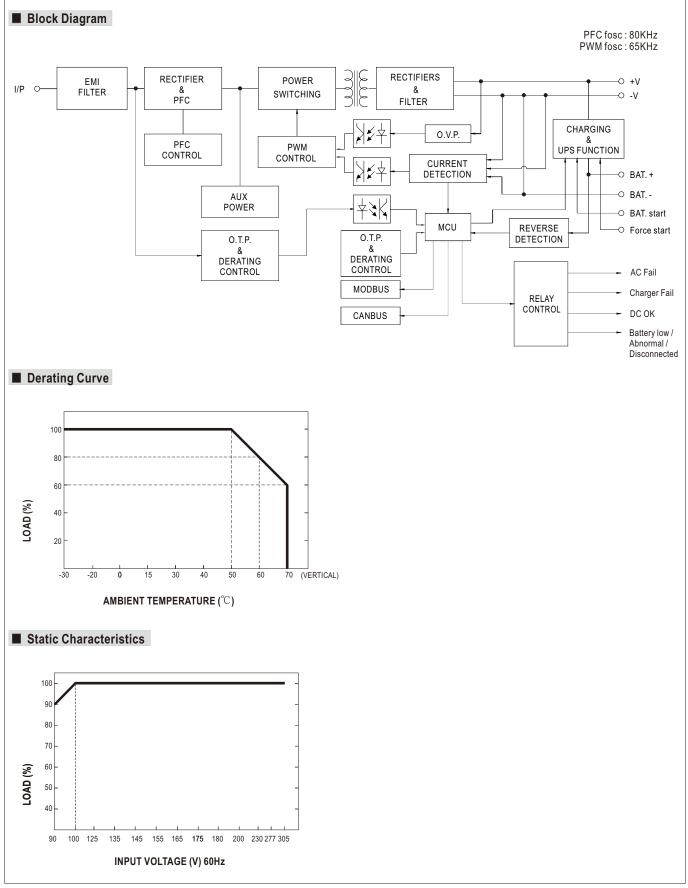
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



MODEL	ATION								
			DRS-480-24		DRS-480-36		DRS-480-48		
	OUTPUT V	OLTAGE Note.2	=Blank, CAN		36V		48V		
		RENT RANGE	0~20A		0~13.3A		0~10A		
		URRENT (CC)(max.)			10.2A		7.7A		
		NDED BATTERY							
OUTPUT		(AMP HOURS)Note.3	20~200AH		13 ~ 133AH		10 ~ 100AH		
	TOTAL OUTPUT POWER Note.4		Combined power on	all Channels m	ust not exceed 4	80W, load has priori	ty. 550W peak capability within 5s.		
	RIPPLE & NOISE (max.) Note.5		240mVp-p		360mVp-p		480mVp-p		
	VOLTAGE TOLERANCE Note.6		±1.0%		±1.0%		±1.0%		
	LINE REG	JLATION	±0.5%		±0.5%		±0.5%		
	LOAD REG	ULATION	±0.5%		±0.5%		±0.5%		
			2400ms, 1000ms/230VAC 2400ms, 1000ms/115VAC at full load						
	HOLD UP	ГІМЕ (Тур.)	16ms/230VAC 10ms/115VAC at full load						
	VOLTAGE			~ 431VDC					
		CYRANGE	47 ~ 63Hz						
INPUT		ACTOR (Typ.)		PF>0.98/115VAC	T				
	EFFICIEN		92.5%	(000) (1.0	93.5%		93.5%		
	AC CURRI	,		/230VAC					
		URRENT (Typ.)	COLD START 30A/115						
	SHORT CI	RCUIT	Protection type: Consta		, power will shutdow	n after 5 sec, re-power	on to recover.		
	OVERLOA	D	105 ~ 135% rated output			ltono often E coo			
			Protection type: Consta	0.	•	bliage alter 5 sec.			
PROTECTION	OVER TEN	IPERATURE	Automatically drop load Protection type : Shut d			v after temperature doe	s down.		
			Load main output : 32.4 ~ 3	1 0 /	Load main output : 4	, , , , , , , , , , , , , , , , , , , ,	Load main output : 64.8 ~ 74.5V		
	OVER VOI	TAGE	Protection type : Shut d						
	BATTERY	CUT OFF	20.9±0.5V		31.3±0.7V		41.8±1V		
		POLARITY	By internal MOSFET, no	damage, recover	rs automatically afte	r fault condition is remo	ved.		
				v ·			.C, 132~187VAC of 220VAC.		
		AC FAIL	Relay contact output, O	N : AC OK ; OFF :	AC Fail ; max. rating	g : 30Vdc/1A			
	FORM-C	CHARGER FAIL	Relay contact output, O		. .				
	RELAY	DC OK		gnals normal DC output and activates when output voltage > 90% rated value.					
FUNCTION		BATTERY LOW/		elay contact output, ON : DC OK ; OFF : DC Fail ; max. rating : 30Vdc/1A					
		ABNORMAL/	Relay contact output, ON : Battery OK ; OFF : Battery Low ; max. rating : 30Vdc/1A Battery low voltage : < 22V ± 0.3V						
	BATTERY	DISCONNECTED							
		SIARI	Restart system directly from battery and does not require AC power						
	DC-UPS ADJUSTABLE CHARGING CURRENT		UPS switch to battery power within 10ms of AC failure						
			20% ~ 100% charging current adjustable by VR						
	BATTERY TEMPERATURE COMPENSATION		The system can change the battery charging voltage by detecting the temperature (Please refer to page 9~10 for more details).						
	WORKING TEMP.		-30 ~ +70°℃ (Refer to "Derating Curve")						
	WORKING HUMIDITY		20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing						
ENVIRONMENT	TEMP. COEFFICIENT		±0.03%/°C (0~50°C) on Load output						
	VIBRATIO	N	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes						
	OPERATIN	GALTITUDE Note.8							
	OVER VO	TAGE CATEGORY	III; According to Dekra BS EN/EN62368-1; altitude up to 2000 meters						
	SAFETY S	TANDARDS	UL62368-1, Dekra BS E	N/EN62368-1, R	CM AS/NZS 62368.1	I, EAC TP TC 004 appro	oved		
	WITHSTAN	ID VOLTAGE	I/P-O/P: 4KVAC I/P-FG: 2KVAC O/P-FG: 1.5KVAC						
	ISOLATIO	N RESISTANCE	I/P-O/P, I/P-FG, O/P-FG	3: 100M Ohms/500	0VDC/25°C / 70%RH	1			
			Parameter	Standard		Test Level / Note			
			Conducted		5032 (CISPR32)	Class B			
	EMC EMIS		Radiated						
				BS EN/EN55	5032 (CISPR32)	Class B Class B			
		SION	Harmonic Current	BS EN/EN61	1000-3-2	Class B			
SAFETY &		SION	Harmonic Current Voltage Flicker	BS EN/EN61 BS EN/EN61	1000-3-2 1000-3-2	Class B 			
EMC		SION	Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN	1000-3-2 1000-3-2	Class B I/EN50082-2)			
EMC		SION	Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/ Parameter	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard	1000-3-2 1000-3-2 I/EN61000-6-2(BS EN	Class B /EN50082-2) Test Level / Note			
EMC		SION	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN61	1000-3-2 1000-3-2 I/EN61000-6-2(BS EN 1000-4-2	Class B //EN50082-2) Test Level / Note Level 3, 8KV air ; Level	2, 4KV contact; criteria A		
EMC		SION	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN61 BS EN/EN61	1000-3-2 1000-3-2 I/EN61000-6-2(BS EN 1000-4-2 1000-4-3	Class B //EN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; crii	teria A		
EMC	EMC IMMU		Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN61 BS EN/EN61 BS EN/EN61	1000-3-2 1000-3-2 I/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-4	Class B VEN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; crit Level 3, 2KV ; criter	teria A ia A		
EMC	EMC IMMU		Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/ Parameter ESD Radiated EFT / Burst Surge	BS EN/EN61 BS EN/EN61 JEN61204-3, BS EN Standard BS EN/EN61	1000-3-2 1000-3-2 I/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5	Class B VEN50082-2) Test Level 7, Note Level 3, 8KV air ; Level Level 3, 10V/m ; crit Level 3, 2KV ; criter Level 3, 1KV/Line-L	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria		
EMC	EMC IMMU		Harmonic Current Voltage Flicker BS EN/EN55035, BS EN Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN61 BS EN/EN61 VEN61204-3, BS EN Standard BS EN/EN61	1000-3-2 1000-3-2 V/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6	Class B VEN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; cri Level 3, 10V/m ; criter Level 3, 1KV/Line-L Level 3, 10V ; criter	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A		
EMC		NITY	Harmonic Current Voltage Flicker BS EN/EN55035 , BS EN/ Parameter ESD Radiated EFT / Burst Surge	BS EN/EN61 BS EN/EN61 JEN61204-3, BS EN Standard BS EN/EN61	1000-3-2 1000-3-2 V/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6	Class B VEN50082-2) Test Level 7, Note Level 3, 8KV air ; Level Level 3, 10V/m ; crit Level 3, 2KV ; criter Level 3, 1KV/Line-L	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A		
EMC	FIRE DET	NITY ECTION AND	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN Parameter ESD Radiated EFT / Burst Surge Conducted	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN BS EN/EN61	1000-3-2 1000-3-2 V/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-6	Class B VEN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; cri Level 3, 10V/m ; criter Level 3, 1KV/Line-L Level 3, 10V ; criter	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A		
EMC	FIRE DET	NITY	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/	BS EN/EN61 BS EN/EN61 JEN61204-3, BS EN Standard BS EN/EN61	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8	Class B VEN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; criter Level 3, 1KV/Line-L Level 3, 1V ; criter Level 3, 10V ; criter Level 4, 30A/m ; criter	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A		
EMC (Note.10)	FIRE DET FIRE ALA MTBF	NITY ECTION AND RM SYSTEM	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc	BS EN/EN61 BS EN/EN61 VEN61204-3, BS EN Standard BS EN/EN61 EN54-4	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8	Class B VEN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; criter Level 3, 1KV/Line-L Level 3, 10V ; criter Level 3, 10V ; criter Level 4, 30A/m ; criter	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A		
EMC Note.10)	FIRE DET FIRE ALA MTBF DIMENSIC	NITY ECTION AND RM SYSTEM	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W	BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN67 BS EN/EN67 BS EN/EN667 BS EN/EN67 BS EN/EN67 EN54-4 ordia SR-332 (Bel /*H*D)	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8	Class B VEN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 10V/m ; criter Level 3, 1KV/Line-L Level 3, 1V ; criter Level 3, 10V ; criter Level 4, 30A/m ; criter	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A		
EMC Note.10)	FIRE DET FIRE ALA MTBF DIMENSIC PACKING	NITY ECTION AND RM SYSTEM	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN BS EN/EN61	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8	Class B //EN50082-2) Test Level / Note Level 3, 8KV air ; Level Level 3, 8KV air ; Level Level 3, 10V/m ; criter Level 3, 10V ; criter Level 3, 10V ; criter Level 3, 10V ; criter Level 4, 30A/m ; criter min. MIL-HDBK-217	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C)		
EMC (Note.10)	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variable	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltage	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu	BS EN/EN61 BS EN/EN61 BS EN/EN61 BS EN/EN67 BS	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8 1000-4-8	Class B Class	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C)		
EMC (Note.10)	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variabl 3. This is	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltag Mean Well's sugges	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu ge when battery is connected range. Please consu	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN67 <	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8 1000-4-8 1000-4-8 1000-4-8 1000-4-8 1000-4-8	Class B Class	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) perature. aximum charging current limitation.		
EMC (Note.10)	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variabl 3. This is 4. If load of	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltage Mean Well's sugges current increases, th	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Ily mentioned are measu ge when battery is connected range. Please consu	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN61 <	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8 Ilcore); 74.5K hrs nput, rated load and anufacturer for their nd and automatical	Class B Class	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) perature. aximum charging current limitation. harging current.		
EMC (Note.10)	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variable 3. This is 4. If load of 5. Ripple	NITY ECTION AND RM SYSTEM M meters NOT specia e with charger voltage Mean Well's sugges surrent increases, th & noise are measur	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are meast ge when battery is conne ted range. Please const e system will prioritize lo ed at 20MHz of bandwidd	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN61 Urdia SR-332 (Bel /*H*D) 42CUFT ured at 230VAC in sected. ult your battery m. ad current demaa th by using a 12"	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-8 Ilcore); 74.5K hrs nput, rated load and anufacturer for their nd and automaticall ' twisted pair-wire te	Class B Class	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) perature. aximum charging current limitation.		
EMC (Note.10) OTHERS	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variablu 3. This is 4. If load of 5. Ripple 6. Tolerar	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltaq Mean Well's sugges jurrent increases, th & noise are measur ce : includes set up	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Ily mentioned are measu ge when battery is connected range. Please consu	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN61 <	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-8 Ilcore); 74.5K hrs nput, rated load and anufacturer for their nd and automaticall ' twisted pair-wire te tion.	Class B Class	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) berature. aximum charging current limitation. narging current. = & 47 μ F parallel capacitor.		
EMC (Note.10) OTHERS	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variabl 3. This is 4. If load d 5. Ripple 6. Tolerar 7. Length 8. The am	NITY ECTION AND RM SYSTEM Memeters NOT specia a with charger volta; Mean Well's sugges current increases, th & noise are measur ce : includes set up of setup time is me bient temperature c	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu ge when battery is conne- sted range. Please consu- e system will prioritize loc ed at 20MHz of bandwid tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m	BS EN/EN61 BS EN/EN61 EN54-4 Ordia SR-332 (Bel /*H*D) 42CUFT Ured at 230VAC in actual current deman the by using a 12" n and load regula Turning ON/OFF with fanless mode	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Ilcore); 74.5K hrs nput, rated load and anufacturer for their nd and automaticall ' twisted pair-wire te tion. ' the power supply r els and of 5°C/1000	Class B	teria A ia A ia A ia A teria A F (25°C) berature. aximum charging current limitation. harging current. F & 47 μ F parallel capacitor. f the setup time. operating altitude higher than 2000m(6500		
SAFETY & EMC (Note.10) OTHERS	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variable 3. This is 4. If load 6. 5. Ripple 6. Tolerar 7. Length 8. The arr 9. Installar	NITY ECTION AND RM SYSTEM meters NOT specia e with charger voltage Mean Well's sugges current increases, th & noise are measur ce : includes set up of setup time is me bient temperature c ion clearances : 400	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu ge when battery is conne- ted range. Please consu- ted range. Please consu- e system will prioritize lo- ed at 20MHz of bandwid tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m	BS EN/EN61 BS EN/EN61 BS EN/EN66	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Illcore); 74.5K hrs Input, rated load and anufacturer for their anufacturer for their anufacturer for their anufacturer for their ind and automaticall ' twisted pair-wire te tion. the power supply r els and of 5°C/1000 n the left and right s	Class B	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) berature. aximum charging current limitation. narging current. = & 47 μ F parallel capacitor.		
EMC (Note.10) OTHERS	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variable 3. This is 4. If load 0 5. Ripple 6. Tolerar 7. Length 8. The arr 9. Installar In case	NITY ECTION AND RM SYSTEM meters NOT specia e with charger voltage Mean Well's sugges surrent increases, th & noise are measur ce : includes set up of setup time is me bient temperature co ion clearances : 400 the adjacent device	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu ge when battery is conne- sted range. Please consi e system will prioritize to ed at 20MHz of bandwid tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m mm on top, 20mm on the e is a heat source, 15cm	BS EN/EN61 BS EN/EN61 BS EN/EN66 EN54-4 ordia SR-332 (Bel /*H*D) 42CUFT ured at 230VAC in acted. ult your battery m action doad regula Tuming ON/OFF with fanless mode e bottom, 5mm or clearance is reco	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-4 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Illcore); 74.5K hrs Input, rated load and anufacturer for their anufacturer for their nd and automaticall ' twisted pair-wire te tion. the power supply r els and of 5°C/1000 n the left and right sommended.	Class B Class	teria A ia A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) berature. aximum charging current limitation. harging current. = & 47 μ F parallel capacitor. If the setup time. operating altitude higher than 2000m(6500 when loaded permanently with full power.		
EMC (Note.10) OTHERS	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variable 3. This is 4. If load of 5. Ripple 6. Tolerar 7. Length 8. The arr 9. Installar In case 10. The p	NITY ECTION AND RM SYSTEM meters NOT specia e with charger voltage Mean Well's sugges current increases, the a noise are measur ce : includes set up of setup time is me ibient temperature co ion clearances : 400 the adjacent devico wer supply is cons	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu ge when battery is conne- sted range. Please consi e system will prioritize to ed at 20MHz of bandwid tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m mm on top, 20mm on the e is a heat source, 15cm	BS EN/EN61 BS EN/EN61 /EN61204-3, BS EN Standard BS EN/EN67 BS EN/	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Illcore); 74.5K hrs Input, rated load and anufacturer for their nd and automaticall ' twisted pair-wire te tion. ' the power supply r els and of 5°C/1000 n the left and right sommended. d into a final equipn	Class B Class	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) perature. aximum charging current limitation. harging current. = & 47 μ F parallel capacitor. f the setup time. operating altitude higher than 2000m(6500 when loaded permanently with full power ent must be re-confirmed that it still meets		
EMC (Note.10) OTHERS	FIRE DET FIRE ALA MTBF DIMENSIC PACKING 1. All para 2. Variable 3. This is 4. If load of 5. Ripple 6. Tolerar 7. Length 8. The arr 9. Installat In case 10. The p EMC d (as ava	NITY ECTION AND RM SYSTEM N meters NOT specia e with charger voltag Mean Well's sugges surrent increases, th % noise are measur ce : includes set up of setup time is me bient temperature c ion clearances : 400 the adjacent device ower supply is cons rectives. For guidar ilable on https://www	Harmonic Current Voltage Flicker BS EN/EN55035, BS EN/ Parameter ESD Radiated EFT / Burst Surge Conducted Magnetic Field Compliance to BS EN/ 556.6K hrs min. Telc 110*125.2*150.7mm (W 1.65Kg; 6pcs/ 11Kg / 1. Illy mentioned are measu ge when battery is connected range. Please const te system will prioritize lo ed at 20MHz of bandwidd tolerance, line regulation asured at cold first start, lerating of 3.5°C/1000m on the bits a heat source, 15cm idered a component while	BS EN/EN61 BS EN/EN61 BS EN/EN67 CH12 STATE	1000-3-2 1000-3-2 1/EN61000-6-2(BS EN 1000-4-2 1000-4-3 1000-4-3 1000-4-5 1000-4-5 1000-4-6 1000-4-6 1000-4-8 Ilcore); 74.5K hrs Ilcore); 74.5K hrs Input, rated load and anufacturer for their anufacturer for their ind and automaticall ' twisted pair-wire te tion. the power supply r els and of 5°C/100C n the left and right sommended. d into a final equipno blease refer to "EMI hent_en.pdf)	Class B	teria A ia A ine ;Level 3, 2KV/Line-Line-Chassis ;criteria ia A teria A F (25°C) berature. aximum charging current limitation. harging current. = & 47 μ F parallel capacitor. f the setup time. operating altitude higher than 2000m(6500 when loaded permanently with full power. ent must be re-confirmed that it still meets power supplies."		





File Name:DRS-480-SPEC 2024-01-18



Function manual

1.Alarm signals

- (1) Alarm Signal is sent out through "AC fail " & " Battery low " & " Charger fail "pins via relay contact.
- (2) An external voltage source is required for this function. The maximum applied voltage is 30Vdc and the maximum sink current is 1A. Please refer to Fig 1.2.
- (3) Table 1.1 explains the alarm function built in the power supply

INPUT	AC fail		DC OK		Battery low/Abnormal /Disconnected		Charger fail	
	2-3	1-3	5-6	4-6	8-9	7-9	11-12	10-12
AC only	closed	open	closed	open	open	closed		
AC + BAT.	closed	open	closed	open	closed	open		
BAT. only	open	closed	closed	open	closed	open		
Low BAT. (<30% capacity)					open	closed		
Charger Fail							open	closed

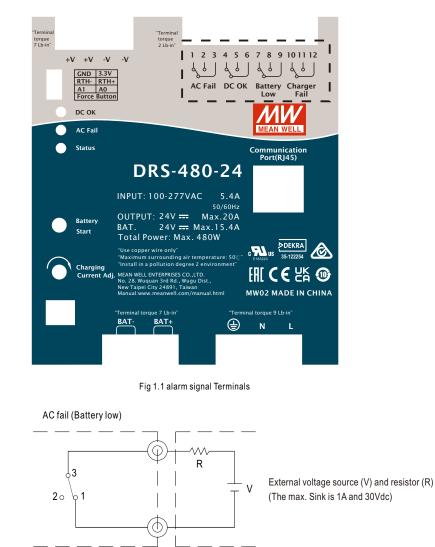


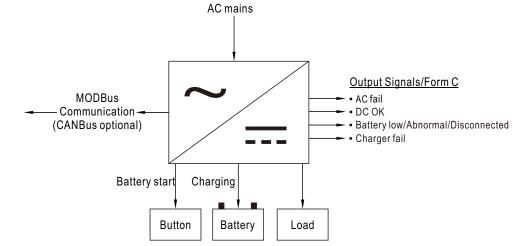
Fig 1.2 Internal circuit of AC fail (Battery low), via relay contact

Table 1.1 Explanation of alarm signal



2.DC-UPS function

When AC mains drops below:79~89VAC of 120VAC,132~187VAC of 220VAC, UPS function will activate and power source switch battery backup.

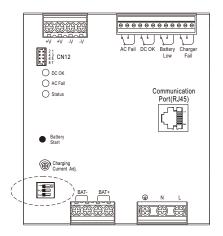


3.Charger setting

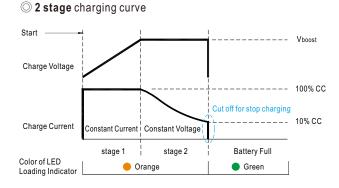
3.1.1 2 or 3-stage selectable by DIP S.W

⅔ This series provides 2 or 3 stage charging curve.

1	OFF: 3 stage(Default), ON: 2 stage
2	Charging outrie adjustable and helping
3	Charging curve adjustable:see below



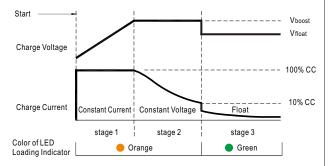
3.1.2 Charging curve can be adjustable by DIP S.W



State	DRS-480-24	DRS-480-36	DRS-480-48
Constant Current	15.4A	10.2A	7.7A
Vboost	28.8V	43.2V	57.6V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).





State	DRS-480-24	DRS-480-36	DRS-480-48
Constant Current	15.4A	10.2A	7.7A
Vboost	28.8V	43.2V	57.6V
Vfloat	27.6V	41.4V	55.2V

© Suitable for lead-acid batteries (flooded, Gel and AGM) and Li-ion batteries (lithium iron and lithium manganese).

% The default curve is programmable, whereas other pre-defined curves can be activated by the means of the DIP S.W; please refer to the table below and the Mechanical Specification.



OFFOFFDefault, programmable28.8ONOFFPre-defined, gel batter15.4A28.0OFFONPre-defined, flooded battery28.429.2ONONPre-defined, AGM battery,LiFe0429.229.2DIP SW position36V model43.2ONOFFDefault, programmable43.2ONOFFPre-defined, gel battery10.2A42.6ONOFFPre-defined, flooded battery43.8DIP SW position48V model43.8DIP SW position48V model43.8DIP SW position57.6OFFOFFDefault, programmable57.6ONOFFPre-defined, gel battery57.6ONOFFPre-defined, gel battery7.7A								
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ON OFF Pre-defined, gel batter 15.4A 28.0 28.4 29.2 29.2 20.2	2	3	Description	CC(default)	Vboost			
OFF ON Pre-defined, flooded battery 15.4A 28.4 28.4 29.2 <th< td=""><td>OFF</td><td>OFF</td><td>Default, programmable</td><td></td><td>28.8</td></th<>	OFF	OFF	Default, programmable		28.8			
OFF ON Pre-defined, flooded battery 28.4 ON ON Pre-defined, AGM battery,LiFe04 29.2 DIP SW position 36V model 29.2 2 3 Description CC(default) Vboos OFF OFF Default, programmable 43.2 ON OFF Pre-defined, gel battery 10.2A 42.6 ON ON Pre-defined, AGM battery,LiFe04 43.8 DIP SW position 48V model 43.8 DIP SW position 48V model 43.8 ON ON Pre-defined, AGM battery,LiFe04 45.6 ON ON Pre-defined, AGM battery,LiFe04 57.6 OFF OFF Default, programmable 7.7A	ON	OFF	Pre-defined, gel batter		28.0			
DIP SW position 36V model 2 3 Description CC(default) Vboos OFF OFF Default, programmable 43.2 ON OFF Pre-defined, gel battery 10.2A 42.6 ON ON Pre-defined, AGM battery,LiFe04 43.8 DIP SW position 43.8 43.8 DIP SW position Pre-defined, AGM battery,LiFe04 43.8 ON ON Pre-defined, AGM battery,LiFe04 57.6 OFF OFF Default, programmable 57.6 ON OFF Pre-defined, gel battery 7.7A	OFF	ON	Pre-defined, flooded battery	15.4A	28.4			
2 3 Description CC(default) Vboos OFF OFF Default, programmable 43.2 ON OFF Pre-defined, gel battery 10.2A 42.6 OFF ON Pre-defined, flooded battery 43.8 OF ON Pre-defined, AGM battery,LiFe04 43.8 DIP SW position 48V model 43.8 OFF OFF Description CC(default) Q 3 Description CC(default) OFF OFF Default, programmable 57.6 ON OFF Pre-defined, gel battery 7.7A	ON	ON	Pre-defined, AGM battery, LiFe04	1	29.2			
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ON OFF Pre-defined, gel battery 10.2A OFF ON Pre-defined, flooded battery 10.2A OFF ON Pre-defined, AGM battery,LiFe04 42.6 DIP SW position 43.8 DIP SW position 48V model 2 3 Description OFF OFF Default, programmable ON OFF Pre-defined, gel battery	2	3	Description	CC(default)	Vboost			
OFF ON Pre-defined, flooded battery 10.2A ON ON Pre-defined, AGM battery,LiFe04 42.6 DIP SW position 48V model 43.8 DIP SW position CC(default) Vboos OFF OFF Description CC(default) OFF OFF Default, programmable 57.6 ON OFF Pre-defined, gel battery 7.7A	OFF	OFF	Default, programmable		43.2			
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DIP SW position 48V model 2 3 Description CC(default) Vboos OFF OFF Default, programmable 57.6 ON OFF Pre-defined, gel battery 7.7A	OFF	ON	Pre-defined, flooded battery	10.2A	42.6			
2 3 Description CC(default) Vboos OFF OFF Default, programmable 57.6 ON OFF Pre-defined, gel battery 7.7A	ON	ON	Pre-defined, AGM battery, LiFe04	1	43.8			
OFF OFF Default, programmable 57.6 ON OFF Pre-defined, gel battery 57.6	DIP SW	position	48V model					
ON OFF Pre-defined, gel battery 7 7A	2	3	Description	CC(default)	Vboost			
7.7A	OFF	OFF	Default, programmable		57.6			
OFF ON Pre-defined, flooded battery 7.1A 56.8	ON	OFF	Pre-defined, gel battery	7 7 4	56.0			
	OFF	ON	Pre-defined, flooded battery	1.7A	56.8			
ON ON Pre-defined, AGM battery,LiFe04 58.4	ON	ON	Pre-defined, AGM battery, LiFe04		58.4			

© Embedded 2 stage charging curve

© Embedded 3 stage charging curve

DIP SW position		24V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable		28.8	27.6			
ON	OFF	Pre-defined, gel batter	15.4A	28.0	27.2			
OFF	ON	Pre-defined, flooded battery	15.4A	28.4	26.8			
ON	ON	Pre-defined, AGM battery,LiFe04		29.2	28.0			
DIP SW	position	36V mo	36V model					
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable		43.2	41.4			
ON	OFF	Pre-defined, gel battery	10.2A	42	40.8			
OFF	ON	Pre-defined, flooded battery	10.ZA	42.6	40.2			
ON	ON	Pre-defined, AGM battery,LiFe04		43.8	42.0			
DIP SW	position	48V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable		57.6	55.2			
ON	OFF	Pre-defined, gel battery	7.7A	56.0	54.4			
OFF	ON	Pre-defined, flooded battery	1.1A	56.8	53.6			
ON	ON	Pre-defined, AGM battery,LiFe04		58.4	56.0			

3.2 SBP-001 can adjust the charging curves (Only CANBus Model)

○ 2 stage charging curve (programable)

DIP SW position		24V model				
2	3	Description	CC(default)	Vboost		
OFF	OFF	Default, programmable	15.4A	28.8		
DIP SW	position	36V model				
2	3	Description	CC(default)	Vboost		
OFF	OFF	Default, programmable	10.2A	43.2		
DIP SW	position	48V model				
2	3	Description	CC(default)	Vboost		
OFF	OFF	Default, programmable	7.7A	57.6		

○ **3 stage** charging curve (programable)

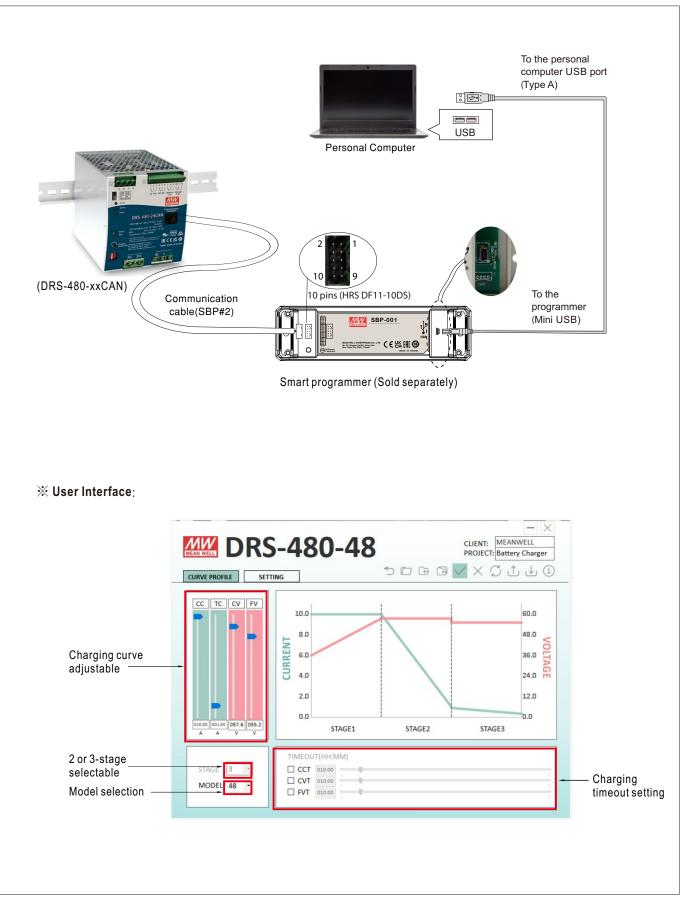
DIP SW	position	24V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable	15.4A	28.8	27.6			
DIP SW	position	36V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable	10.2A	43.2	41.4			
DIP SW	position	48V model						
2	3	Description	CC(default)	Vboost	Vfloat			
OFF	OFF	Default, programmable	7.7A	57.6	55.2			

SBP-001 is a programmer, particularly for MEAN WELL's various programmable battery charger models to program the parameters of charging curves, such as the <u>Constant current (CC)</u>, <u>tapper current(TC)</u>, <u>Constant voltage (CV)</u>, <u>float voltage (FV)</u> and so on, to accommodate the diversified battery specification in industry. With the design accounting for simplicity and convenience, users can easily configure MEAN WELL's programmable battery chargers with SBP-001 programmer and the computer; all of the setups are able to be finished easily by the means of the specific software.

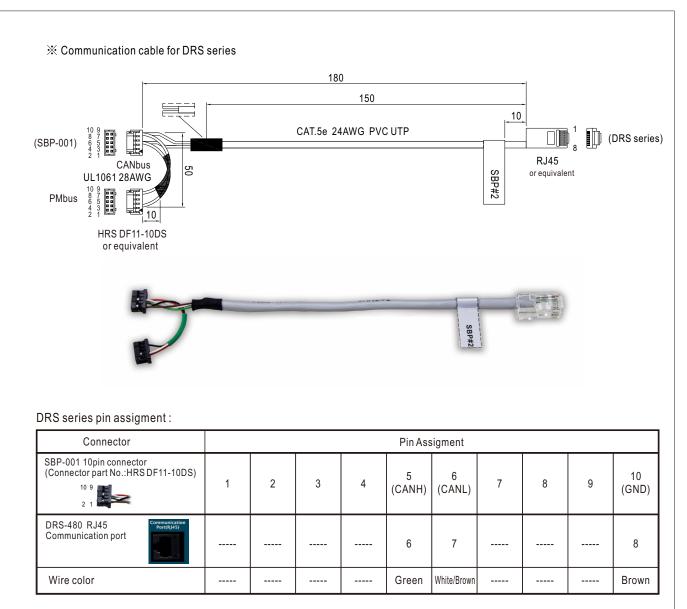
Note:(1) Tapper current(TC) default is 10%, can be fine tuned from 2% to 30% by SBP-001 with computer or CANBus Interface.

- (2) The SBP-001 only supports CANBus version(DRS-480-xxCAN).
- (3) Please contact MEAN WELL for more details.







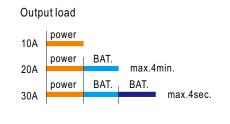


3.3 Communication interface

Charging parameters can be modified by MODBus (DRS-480-xx) or CANBus(DRS-480-xxCAN) communication commands. For details, please refer to: http://www.meanwell.com/manual.html

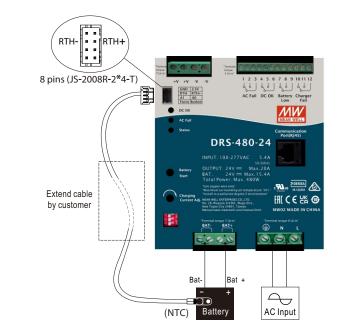
4. Power Boost Mode

The maximum current on the load output is the 2 times the rated current for 4 minutes max. and 3 times the rated current for 4 seconds max. For example (48V model):





5.Battery temperature compensation



- © To exploit the temperature compensation function, please attach the temperature sensor(NTC) which is enclosed with DRS-480, to the battery or the battery's vicinity.
- O DRS-480 is able to work normally without the temperature sensor(NTC).
- 5.1 The compensation parameters included Disable, -3, -4 and -5mV/ °C /Cell .It can be modified by communication command of CANBus, MODBus. The factory default value is -3mV/ °C /Cell.
- 5.2 It will be regarded as normal temperature and will not be compensated when temperature compensation resistance is not connected; And temperature compensation will only compensate lead-acid battery, not lithium iron battery.
- 5.3 The range of temperature compensation is 0-40°C , normal temperature 25°C is the central value, no compensation; When the temperature is < 0 °C or > 40 °C, the current temperature compensation value will be limited to 0 °C or 40°C.

```
24V model as an example
```

Assuming that V_{boost} =28.8V, temperature compensation set to -5mV/°C/Cell by communication, TEMP_bat is NTC temperature detection.

The compensating voltage can be calculated by the following equation:

 V_{boost_comp} =28.8V-5mV*(TEMP_bat -25°C)*12Cell

Max. compensation voltage:

V_{boost_H}=28.8V-5mV*(0°C-25°C)*12Cell=30.3V

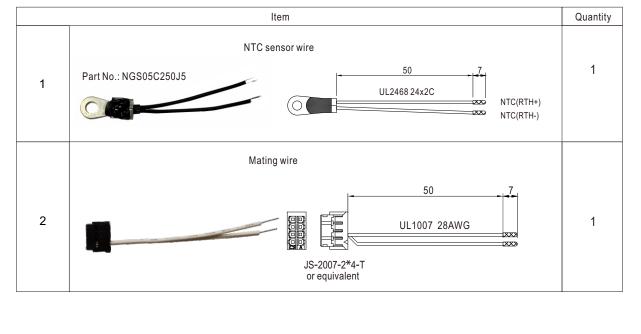
Min. compensation voltage:

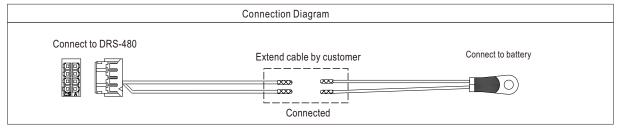
V_{boost_L}=28.8V-5mV*(40°C-25°C)*12CeII=27.9V



5.4 Accessory List









6.LED alarm

o.LED alarm								
Function		Description	Output of alarm					
DC OK		DC fail	OFF O					
		DC OK	Green 🕒					
A Q fail		AC fail	Red					
AC fail		AC OK	OFF O					
	Charging	Float	Green					
	status	Charging: CC/CV	Orange 🔴					
		Discharging	Orange: 1 Blink/Pause 🔆 🥼					
		Charger fail	Red : 1 Blink/Pause 🔆 🥼					
Status		Battery overvoltage / Battery reverse polarity	Red : 2 Blink/Pause 🔆 🎵					
	System	Battery low / No Battery	Red:3Blink/Pause 🔆 ЛЛ					
	diagnosis	Battery discharge peak power timeout.	Red : 4 Blink/Pause 🔆					
		Over load / short	Red : 5 Blink/Pause 🔆					
		Over temperature	Red : 6 Blink/Pause 🔆 ـــــــــــــــــــــــــــــــــــ					
		Timeout	Red : 7 Blink/Pause 🔆 ـــــــــــــــــــــــــــــــــــ					



Suggested Application

1.Backup connection for AC interruption

(1) Please refer to Fig2.1 for suggested connection.

The power supply charges the battery and provides energy to the load at the same time when AC mains is OK. The battery starts to supply power to the load when AC mains fails.

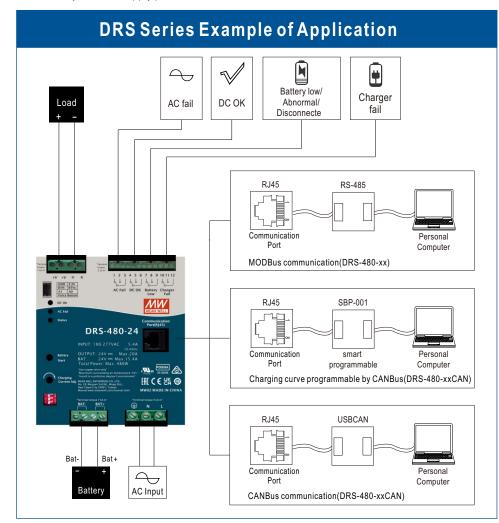


Fig 2.1 Suggested system connection

(2) Backup time

Backup time depends on:

ℜ from the load current

% from the size of the batteries.

The following table is an example (battery capacity at C10 discharge rate).

Battery Load	10AH	20AH	50AH	100AH	200AH
1.5A	350min	13h	33h	67h	133h
3A	125min	350min	17h	33h	67h
5A	60min	180min	600min	20h	40h
7.5A	35min	90min	350min	13h	27h
10A	23min	60min	240min	10h	20h
15A	13min	35min	125min	350min	13h



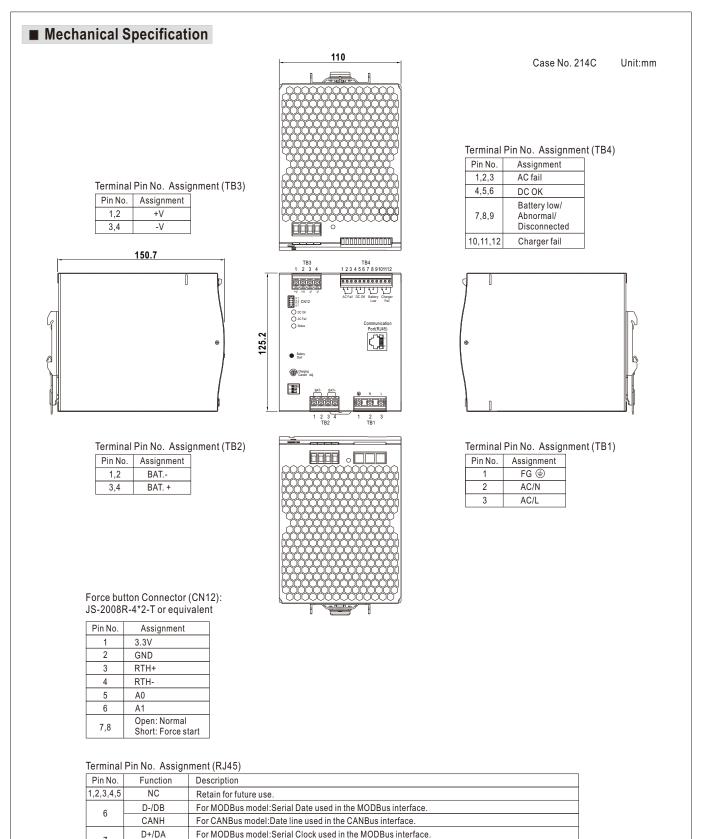
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8

CANI

GND-AUX

DRS-480 series



For CANBus model:Date line used in the CANBus interface.

Auxillary voltage output GND. The signal return is isolated from the output terminals(+V & -V).



