





















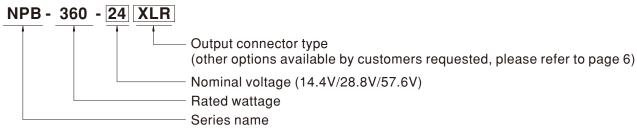


- 90~264Vac universal AC input, built-in PFC
- · Charger for compatible with lead-acid and li-ion batteries
- Wide adjustable output range by VR:
 - ► Charging voltage adjustable(10.5~15.2V、21~30.4V、42~60.8V) Specialty vehicles
 - ► Charging current adjustable(50~100% rated current)
- 2 or 3 stage selectable by DIP S.W
- No load power consumption < 0.15W(AC S.W off)
- Fan ON-OFF control (Depends on internal temperature)
- -30°C ~+70°C wide operating temperature
- Protections: Short circuit / Over voltage / Over temperature / Battery reverse polarity protection
- Comply with UL/EN62368-1 and EN60335-1/2-29 dual certification
- · Front panel LED indicator for charging status
- 3 years warranty

Description

NPB-360 series is a 360W charger for compatible with lead-acid (Flooded, Gel, AGM) and li-ion(Lithium iron, lithium manganese) batteries. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and two or three-stage charging control. The entire series supplies different models with output voltages ranging between 10.5VDC and 60.8VDC that can satisfy the demands for various types of batteries devices.

Model Encoding



Туре	Output Connector	Safety	Note
XLR	4 pin power pin	CB [A C CUK	In Stock
AD1	Anderson Equivalent Connector	(48V UL certificated same as TB Type)	In Stock
ТВ	Terminal Block	CB [H[&CEKA	In Stock





Output connector: TB type

Output connector: AD1/XLR type









Applications

- Radio system backup solution
- Electric scooter charger
- · Camping car · Buses · Heavy duty truck ·
- Surveillance system
- Portable power tools

GTIN CODE

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

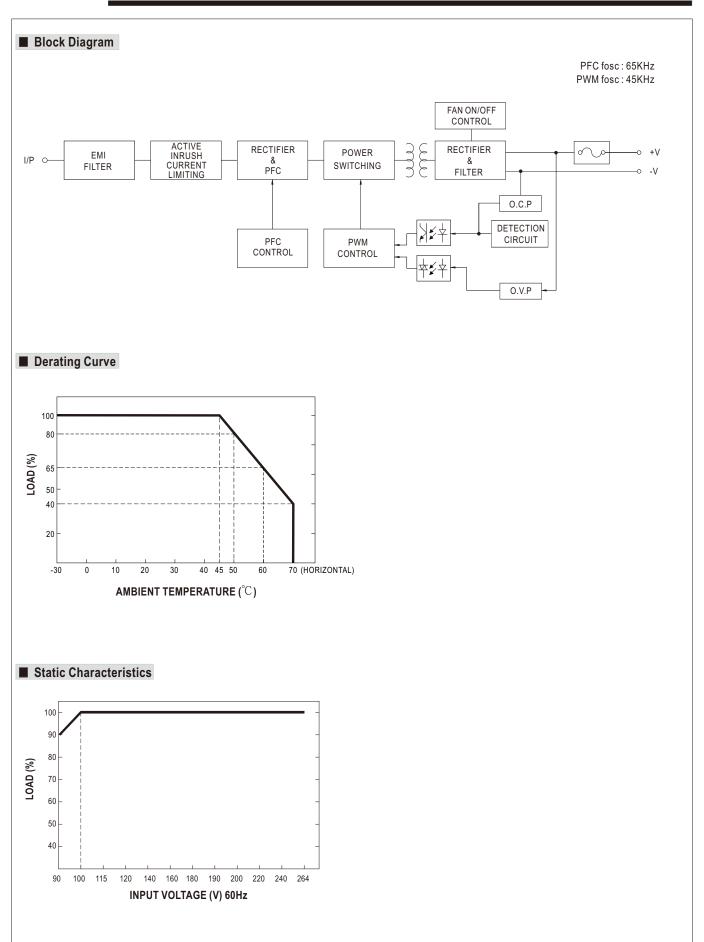


SPECIFICATION

MODEL			NPB-360-12□	NPB-360-24□	NPB-360-48□	
		□ =XLR. AD1. TB	l			
	BOOST CHARGE VOLTAGE(Vboost)(default)		, ,	28.8V	57.6V	
	FLOAT CHARGE VOLTAGE(Vfloat)(default)			27.6V	55.2V	
	VOLTAGE ADJUSTABLE RANGE			21 ~ 30.4V	42 ~ 60.8V	
				12A	6A	
DUTPUT	OUTPUT CURRENT(Typ.) Note.5			IZA	OA	
	CURRENT ADJUSTABLE RANGE		304W	264 014	364.8W	
			3044	364.8W	304.000	
	RECOMMENDED BATTERY CAPACITY (AMP HOURS) Note.4		65 ~ 195AH	40 ~ 125AH	20 ~ 65AH	
I FAKAGE CURRENT			<1mA			
			90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE		47 ~ 63Hz			
	POWER FACTOR (Typ.	.)	PF>0.98/115VAC, PF>0.95/230VAC at full load			
INPUT		XLR	87%	91%	92%	
	EFFICIENCY (Typ.)	AD1	87%	91%	92%	
		ТВ	88.5%	92%	92.5%	
	AC CURRENT (Typ.)	טון	4.5A/115VAC 2.2A/230VAC	9270	92.376	
	INRUSH CURRENT (Typ.)		COLD START 50A at 230VAC			
	LEAKAGE CURRENT		<.75mA/240VAC			
		Nata C		a charger will shutdown after E age to now	vor on to receiver	
	SHORT CIRCUIT	Note.6	,.	g, charger will shutdown after 5 sec, re-pov		
DDOTECTION	OVER VOLTAGE		16 ~ 20V	32 ~ 40V	64 ~ 75V	
PROTECTION			Protection type: Shut down and latch off of	o/p voltage, re-power on to recover		
	REVERSE POLARITY		By internal fuse open			
	OVER TEMPERATURE		Hiccup mode, recovers automatically after temperature goes down			
FUNCTION	CHARGING CURVE		2 or 3 stage adjustable by DIP S.W			
	FAN CONTROL (Typ.)		Internal RTH3≥50°C Fan ON, ≤45°C Fan OFF			
	WORKING TEMP.		-30 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY		20 ~ 95% RH non-condensing			
ENVIRONMENT	,		·			
	TEMP. COEFFICIENT		±0.05%/°C (0~45°C)			
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
	SAFETY STANDARDS		CB IEC62368-1,IEC60335-1/2-29, Dekra BS EN/EN62368-1,BS EN/EN60335-1/2-29, UL62368-1, AS/NZS60335-1/2-29, J62368-1(2020) (except for 48XLR & TB type) ,KC62368-1,EAC TP TC 004 approved			
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTAN	CE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50		I =	
			Parameter	Standard	Test Level / Note	
	EMC EMISSION		Conducted	BS EN/EN55032 (CISPR32),BS EN/EN55014-1	Class B	
			Radiated	BS EN/EN55032 (CISPR32),BS EN/EN55014-1	Class B	
			Harmonic Current	BS EN/EN/61000-3-2	Class A	
SAFETY &			Voltage Flicker	BS EN/EN61000-3-3		
EMC (Note 7)			Parameter	N/EN55035, J55032(H29) (except for 48XLR Standard	Test Level / Note	
(ESD	BS EN/EN61000-4-2		
			Radiated	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact	
	EMC IMMUNITY		EFT / Burst		Level 2, 3V/m Level 2, 1KV	
			_	BS EN/EN61000-4-4 BS EN/EN61000-4-5	Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea	
			Surge Conducted	BS EN/EN61000-4-6	Level 2, 3Vrms	
			Magnetic Field	BS EN/EN61000-4-8	Level 1, 1A/m	
			Magnetic Fleid	B3 EN/EN01000-4-8	>95% dip 0.5 periods, 30% dip 25 period	
			Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% interruptions 250 periods	
OTUEDO	MTBF		1324.7K hrs min. Telcordia TR/SR-332 (Bellcore); 173.9K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION		182.7*96*49mm (L*W*H)			
NOTE	1.3Kg; 10pcs/ 14Kg / 1.13CUFT 1. Modification for charger specification may be required for different battery specification. Please contact battery vendor and MEAN WELL for details. 2. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 3. Refer to derating curve. 4. This is MEAN WELL's suggested range. Please consult your battery manufacturer for their suggestions about maximum charging current limitation. 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. This protection mechanism is specified for the case the short circuit occurs after the charger is turned on. 7. The charger is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."					

Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





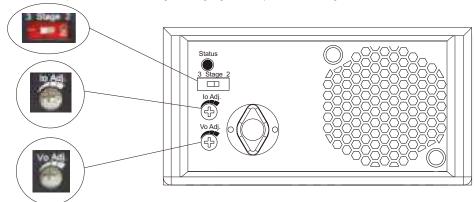


■ Function Manual

1. Charging Curve

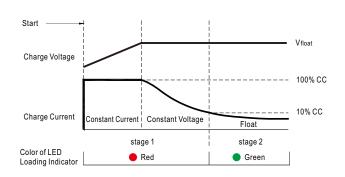
1-1 2 or 3 stage selectable by DIP S.W

* This series provides 2 or 3 stage charging curve. (Default 3 stage)



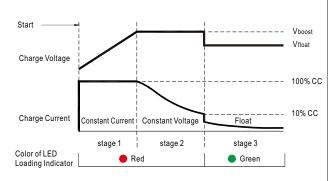
1-2 Charging Curve by DIP S.W

2 stage charging curve



State	NPB-360-12	NPB-360-24	NPB-360-48
Constant Current	20A	12A	6A
Vfloat	13.8V	27.6V	55.2V

3 stage charging curve



State	NPB-360-12	NPB-360-24	NPB-360-48
Constant Current	20A	12A	6A
V _{boost}	14.4V	28.8V	57.6V
Vfloat	13.8V	27.6V	55.2V

- \odot 2 stage charging cure is suitable for Li-ion batteries(lithium iron and lithium manganese),
 - 3 stage charging cure is suitable for lead-acid batteries (flooded, Gel and AGM).

2. Charging voltage adjustable by VR

Model	NPB-360-12	NPB-360-24□	NPB-360-48□
Output voltage adjustable range	10.5~15.2V	21~30.4V	42~60.8V



3. Charging current adjustable by VR

Model		NPB-360-12	NPB-360-24□	NPB-360-48□
	Output current adjustable range	10~20A	6~12A	3~6A

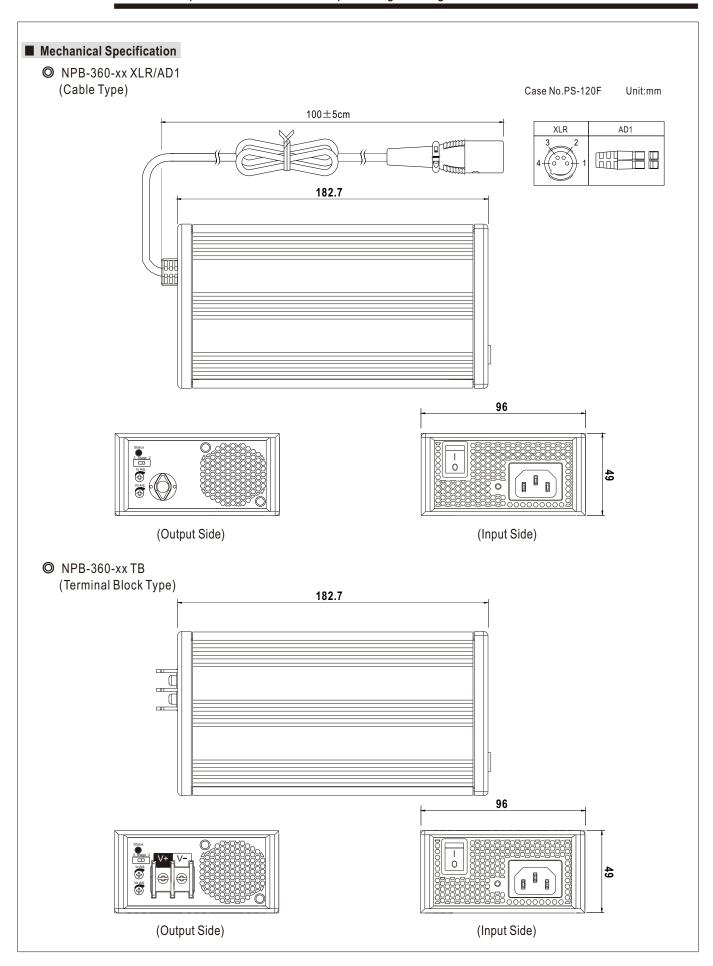


4. Front panel LED indicators & Corresponding signal at function pins

LED	Description
Green	Float (stage 3) or Battery full
Red	Charging (stage 1 or stage 2)







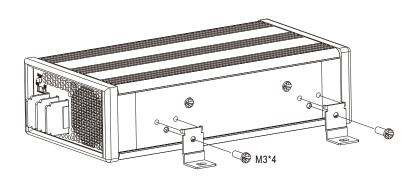


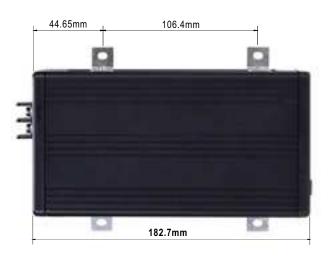
■ Accessory List

Bracket (Optional accessory, Should ordered seperately)

MW's Order No.	Item	Quantity
DGG2MHS012D	[0]	4pcs/per model

■ Installation Diagram











■ Plug Assignment

Standard Output Connector



AD1		
housing: Anderson 1327(red), 1327G6(black) equivale contacts: Anderson 261G2 (45A) equivalent	nt	
Red(+V) Black(-V)		



Optional DC plug: (Available in customized)

	T N	Pin	Assignment
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output(<7A)
Jana 1-2-		1	+Vo
(° °) 2 3 (1111) (3 1 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	R7B	2	-Vo
14		3	-Vo
KYCON KPPX-4P equivalent		4	+Vo
DIN 2 Dia VI D	Type No.	Pin	Assignment
DIN 3 Pin XLR		PIN No.	Output(<10A)
3 pin XLR		1	+Vo
1(0,0)2	XLR3	2	+Vo
3		3	-Vo
DIN 3 Pin	Type No.	Pin	Assignment
DIN 3 PIII	туре по.	PIN No.	Output(<7A)
1 2		1	+Vo
	D3P	2	-Vo
2		3	-Vo
DIN 2 Pin	Type No.	Pin Assignment	
DINZIIII	турстчо.	PIN No.	Output(<5A)
	Dob	1	-Vo
	D2P	2	+Vo
DIN 3 Pin	Type No.	Pin Assignment	
DINSTIII	турстчо.	PIN No.	Output(<10A)
	INL3	N	+Vo
N(0 1 0) L	INLS	L	-Vo
AMD 4 400700 0 (6 05)	Type No.	Pin	Assignment
AMP 1-480702-0 (6.35mm) equivalent	туре но.	PIN No.	Output(<7A)
	C4P	1	+Vo
		2	+Vo
		3	-Vo
FG not connected to output connector		4	-Vo

■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html